

ASSIUT UNIVERSITY FACULTY OF PHARMACY PHARM. ANAL. CHEM. DEPT.

PC 306(ANALYTICAL CHEMISTRY-2) SEMESTER (3) 2011/2012 MID-TERM EXAM December 3, 2011

PHAR	M. ANAL. CHEM.	DEPT.	Time	e Allowed: 1/2	hours	
	نالب:	رقم الط				سم الطالب:
(A) <u>R</u>	eduction- Oxidatio	n Titrations:				
l - Cal	culate the O.N. Fo	r Nitrogen in the	e following c	ompounds:		
N ₂ H ₄	O.N. =	NH ₂ OH	O.N. =	HNO_3	O.N. =	
2- Co1	mplete and balance	e the following e	equation:			
	$InO_4^- +C_2O_4^-$		+	+		
	mplete the following					
No	Io	dimtry		Iode	ometry	
1						
2						
3						
4						
Comp 1 - The 2 - 8 - H 3 - Co	omplexometric Titlete the following e process of ring for Iydroxyquinoline i cordination number e stability of metal- (a)	statements: ormation betwee s an axample of r is	xes is affected	ligand.	•	lled
5- The	e sharpness of the t (a)	titration curve is	affected by:			

c- Calculate the potential of the following cell (${\rm E^0}_{\rm cell}$) (1 Mark)

Where
$$E^{0}_{Pb/Pb}^{2+} = -0.13 \text{ V}$$

$$E^0_{Cu/CU}^{2+} = +0.34 \text{ V}$$

Is the reaction spontaneous? Why?

d- Draw and label a conductometric titration curve for strong acid with strong base. (1½ Marks)

I	Ш	1	S	p	е	C	tr	0	p	h	0	t	0	n	16	91	tr۱	/	:
		-															_	,	

(10 Marks)

1- Compare between the following: (3 Marks)

No	(A)	(B)
1	Chromophore	Auxochrome
2	Beer' law	Lamberts law
3	Standard calibration curve	Absorption curve

2- Calculate the wave number and frequency of a light beam with a wavelength of 550 nm. (2 Marks)

3-Draw a schematic diagram for single beam spectropjotometer (1 Mark)

4- Which compound in each of the following pairs is likely to absorb radiation at longer wavelength (Give reason): (2 Marks)

(A)
$$CH_2$$
 Or CH_2

(B) CH_3 Or CH_3

5-Select from set (A) the most suitable statement for each in set (B): (2 Marks)

	(A)
(1) Spactra of atoms	(2) Tungsten- halogen lamp
(3) Benzene	(4) Stray light
(5) Spectra of molecules	(6) Hypochromic effect
(7) Bathochromic shift	(8) Gratings
(9) Deuterium discharge lamp	(10) n-σ* transition
(11) Prisms	(12) Hyperchromic effect
(13) n- π* transition	(14) Hypsochromic shift
(15) Water	(16) Unmatched cells

()Used as light source for measurements in UV-region
() Considered as Irregular instrumental deviation.
() Compound considered as good solvent for UV-measurements.
() The most red shifted electronic transition
() Shift to shorter wavelength.
() Appear as broad bands
() It is the increase in absorption intensity for an absorption band.
() It is the best type of monochromators

Prof.Dr. Abdel-Maaboud Ismail Mohamed



Faculty of Medicine Physiology Department Date: 5/1/2012 Time allowed: 3 hours Total mark: 65

Final Examination In

Medical Physiology for Third Semester Clinical Pharmacy Students

1) Blood:	Mark
1- Mention four functions of plasma proteins and 2 conditions in which A/G	3 ratio is
decreased.	3
2- Enumerate functions of RBCs contents.	2
3- Explain the extrinsic mechanism for formation of prothrombin activator.	2 2 2
4- Mention one function to each of the following:	_
a- eosinophils b- basophils c- lymphocytes d- monocyte	S
II) Cardiovascular system:	
1- Define contractility and mention 3 factors affecting it.	3
2- What is the effect of pain, temperature and hormones on heart rate?	3
3- Define the following:	2
a- excitability b- conductivity c- cardiac output d- hemorrhage	
4- Enumerate the immediate compensatory reactions to hemorrhage.	3
III) Respiration:	
1- Define surfactant and mention its physiological significance.	2
2- Describe Hering Breuer reflexes.	3
3- Define cyanosis, mention its cause, the threshold for cyanosis and types of in which it is observed.	hypoxia 3
IV) Central nervous system:	
1- Mention functions of cerebral cortex.	3
2- Write true for the correct and false for the wrong statement:	2
a- Spinal cord transmit impulses to and from the brain.	
b- The thalamus is concerned with coordination of voluntary muscular movements, posture and balance.	
V) Endocrinology:	
1- Mention site of secretion and functions of ADH (antidiuretic hormone).	4
2- Describe how blood glucose is regulated.	4
3- In the following statements write true or false:	2
a- Calcitonin is a hormone secreted by the parathyroid gland.	
b- Hypoparathyroidism is one of the causes of tetany.	

VI) <u>Autonomic nervous system:</u>	Mark
1- Mention functions of the sympathetic nervous system on head and neck.	4
2- Enumerate sites of secretion of acetyl choline.	3
3- Briefly discuss adrenergic receptors.	3
VII) Digestive system:	
1- Mention functions of bile salts.	3
2- Define vomiting and describe its mechanism.	4
VIII) Kidney:	
1- Mention factors affecting glomerular filtration rate.	3
2- Discuss sodium reabsorption by renal tubules.	2

Good luck Professor Ibtisam Elmileegy & Dr Salwa wasfy





اختبار الفصل الدراسى الأول للعام الجامعى ٢٠١٢/٢٠١ الفصل الثالث – برنامج الصيدلة الإكلينيكية

الزمن: ساعتان المادة: علم النفس

تعليمات الاختبار:

- → يتكون الاختبار من سؤالين ، أكمل العبارات بأدق ماتراه مناسبا بالسؤال الأول، وبين صحة أم خطأ العبارات بالسؤال الثاني في ضوء دراستك لمقرر علم النفس.
- → اكتب اجابتك فى نموذج الاجابة المعد فى السؤال الأول، وفى المكان المحدد فى السؤال الثانى ، ولن يلتفت الى أى اجابة داخل صفحات الأسئلة فى غير المكان المخصص لها.
- → درجات التساؤلات متساوية، فكل تساؤل له ثلاث درجات؛ لتصبح الدرجة العظمى للاختبار ٩٠ درجة.
 - → تأكد من أن صفحات الاختبار خمس (٥) صفحات.

السوال الأول:

أكمل العبارات الآتية بأدق ما تراه مناسبا من البدائل الثلاثة (أ-ب-ج) في ضوء دراستك لمقرر علم النفس.

نموذج الإجابة بعد الذي تم اختيارك اياه في المكان المناسب له طبقا لرقم كل تساول.

	دائل الاختبار	•	م	بدائل الاختبار			م
E	Ļ	Í		<u>ج</u>	Ļ	Í	
			11				1
			١٢				۲
			١٣				٣
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			1 7				٧
			۱۸				٨
			19				٩
			۲.				1.

لكم أكمل العبارات الأتية بادق ما تراه مناسباً من البدائل الثلاثة (أ-ب-ج) في ضوء دراستك لمقرر علم النفس.				
ىل ج	البدائ ب	العبارات	А	
		برز في العصر الحديث علم النفس الإيجابي ؛ نتيجة ؛	-1	
		أ-دراسة الاضطرابات النفسية وعلاجها .		
	0	ب- التدخلات العلاجية للأمراض الذهانية .		
0		ج - تناول المتغيرات الإيجابية في الشخصية .		
		يقصد بسلسلة التغيرات الطارئة على الفرد في الجانب التكويني :	-Y	
	Sandahel Madalahada	أ- النمو. C		
	0	ب-الارتقاء.		
		ج-النضج.		
		تظهر الأمراض السيكوسوماتية للى الأفراد ؛ نتيجة ؛	-٣	
		أ - اضطرابات وأمراض الجلد وضغط الدم .		
	0	ب- اضطرابات وآلام المعدة .		
0		ج - استجابة الجسد للضغوط النفسية .		
		يصنف الوسواس القهري ضمن الاضطرابات :	-\$	
		أ- الذهانية .		
	0	ب- السيكوسوماتية .		
0		ج — العصابية.		
		يطلق على التغير شبه الدائم في السلوك نتيجة الخبرة والمارسة والتدريب :	-0	
	COMPONENCE PROMET	أ- التربية.		
	0	ب- التعليم.		
0		ج التعلم.		
		يتجلى الفارق بين مصطلحي التعليم والتعلم في :	-1	
		أ- القصدية والرسمية ،		
	0	ب- المنظومة والتكامل.		
0		ج ─الاستمرارية.		
		للتغلب على ظهور أعراض الأمراض السيكوسوماتية يلزم الفرد :	-Y	
		أ- إتباع أحد إستراتيجيات مواجهة الضغوط الفعالة .		
	Ó	ب- تعلم طريقة حل المشكلات بخطوات المنهج العلمي .		
0		ج — إتباع خطوات التفكير في مجالات الحياة المختلفة .		
		يظهر سوء التوافق الاجتماعي لدى ذوي الأمراض السيكوسوماتية ؛ نتيجة :	-4	
		أ- شعور ذوي الاضطرابات السيكوسوماتية بالإنهاك والإعياء .		
	0	ب- شعور ذوي الاضطرابات السيكوسوماتية بالدونية والنقص .		
0		ج-شعور ذوي الاضطرابات السيكوسوماتية بالوحدة والعزلة عن الآخرين.		
			-	

	<u>ق</u> س ،	عمل العبارات الآتية بادق ما تراه مناسباً من البدائل الثلاثة (أببج) في ضوء دراستك لقرر علم ال	اعما
ل ج	البدائ ب	ال ا	А
		يتفق الكثير من علماء النفس على أنه من الضروري في معالجة الاضطرابات السيكوسوماتية نفسيا :	-9
0	0	 أ- التغلب على السلوك غير المرغوب فيه والارتقاء بالسلوكيات الإيجابية . ب- التدريب على التفريخ الانفعالي والتداعي الحر . ج- العلاج المقاقير أولا . 	
		من أساليب التوافق غير المباشرة :	-1•
0	0	أ- الحيل الدفاعية (الميكانيزمات الدفاعية) ب- بذل الجهد للوصول إلى الهدف . ج-تغيير الهدف بما يتناسب مع قدرات الفرد .	
سلو إلا أنه	صنیف ما	على الرغم من أن الحاجات النفسية Psychological Needs تتدرج في هرميتها طبقاً لل تعبر عن :	-11
0	0	أ- الشدة والحدة . ب-التكامل . ج-السعة والمدى .	
		يظهر الضمير والثل كاحد مكونات الشخصية الإنسانية في نظرية التحليل النفسي في :	-17
0	0	أ- الأنا الأعلى Super Ego . ب- الأنا Ego ب- الأنا Super Ego . ج- الهو ID.	
		يتوقف التوافق النفسي والاجتماعي لدى الفرد طبقاً لنظرية التحليل النفسي على قوة :	-14
0	0	i - الاتا الأعلى Super Ego . ب - الاتا Ego . ج - الهو ID .	
		يعرف استعداد الفرد لاكتساب مهارة معينة بانه :	-18
0	0	i- الشخصية Personality . ب- القدرة Ability . ج-الأداء Performance .	
		تتباين أنواع التوافق ، وتتنوع وجهات النظر حولها ، إلا أنها تبدو في صورة :	-10
0	0	أ- تكاملية . ب- نظامية . ج-متسقة .	
		يرى •••• أن الذكاءات ليست استاتيكية بل يمكن تنميتها طوال حياة الإنسان	-17
0	0	i- جاردنر ب- ثورندیك ج-سكنر	

Sia	كمل العبارات الآتية بأدق ما تراه مناسباً من البدائل الثلاثة (أ — ب — ج) في ضوء دراستك لمقرر علم النفس 	ں ۰	
А	تال با	البدائ ب	ر ج
-17	تصنف اختبارات النكاء من حيث المحتوى إلى ٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠		
	أ- لفظية وغير لفظية .	S BORGLICH WO	STA BIST-ZP Right
	ب-فردية وجماعية .	0	
	ج – سرعة وقدرة .		0
-14	قدر نظرية ثلاثية الأبعاد للنكاء عام ١٩٢٥ .		
	أ- سبيرمان .	2219/10/07/5/20	AN INDIANGATION AND
	ب- جيلفورد .	0	
	ج – ثورنديك .		0
-19	قال أن الحقيقة لا تعرف كسلطة مطلقة ، ولكنها كامنة في العقل .	1.4	
	أ- سقراط.		
	ب- أفلاطون .	0	
	ا ج — أرسطو .		0
-4.	يرى • • • • • • أن القسوة والشدة في معاملة الأطفال تدعوهم إلى المكر والخبث .	ci. Ai s	
-	أ- ابن خلدون .	2440000000000	
	ب- الفارايي .	0	
	اج−ابن سينا .		0
سؤال ال - يرى ا	لثانى: بين صحة أو خطأ العبارات التالية ، ثم صوب العبارات الخطأ: رينزولى أن كل الأفراد يمتلكون ذكاءات متعددة وبدرجات متساوية.)	(
- تعد ال	لمو هبة والإبداع وجهان لعملة واحدة.)	(
- يرى	كاتل أن الذكاء السائل يتحدد بالعوامل الوراثية ويمثل الحدود القصوى لقدرة الفرد.)	(

()	٤- يرى أصحاب المدرسة التحليلية أن الانسان رهن بما يفكر فيه.
()	 التذكر عملية عقلية تعنى إدراك العلاقات القائمة من أجل حل المشكلات.
()	٦- يعد الذكاء سمة لايمكن قياسها بصورة مباشرة.
()	٧- يعد جاردنر من أنصار الاتجاه التقليدى في قياس الذكاء.
()	 ٨- يهتم النمط الأوتوقراطى فى القيادة بالتفاعل مع المرؤوسين والاستماع اليهم.
()	 ٩- كان أفلاطون يعتقد أن الأحلام ليست إلا إشاعات بديلة للعواطف المكبوتة.
()	١٠- الذكاء هو القدرة على حل المشكلات وابداع النواتج.
حنين	انتهت الأسئلةمع تمنياتنا لكم بالتو فيق
الظاهر الخولى	د. عبد الله محمد عبد
سن عبد التوان الحديبي	د. مصطفى عبد المحا



Faculty of Pharmacy Pharmacology Department Medical Terminology Examination For Clir	Date: 24/1/2012 Time allowed: 2 hours nical Pharmacy Student
Student Name:	
Part I (1/2 mark each	ch)
Match the word parts in Column A with the de	
COLUMN A	COLUMN B
1- The contraction period of a cardiac cycle.	A.Aetiology ()
2- The property to stop bleeding.	B.Pharmacokinetics ()
3- The relaxation period of a cardiac cycle.	C.Epistaxis ()
4- The amount of blood pumped out by the heart.	D.Pyelonephritis ()
5- Difficulty in breathing.	E.Active prophylaxis ()
6- The study of the effects of drugs on the body.	F. Euphoria()
7- Presence of blood in the sputum.	G.Vertigo ()
8- Bleeding from the nose.	H.Cataract ()
9- Inflammation of the pelvis of the kidney.	I.Haemostatic ()
10- Feeling of happiness and confident sense of	J.Haemoptysis()
well being.	
11- The study of the effect of body on the drug following its administration.	K. Cardiac output ()
12- The use of an antigen to induce immunity	L. Systole ()
against it.	•
13- A clouding or opacity of the lens of the eye.	M.Diastole ()
14- The study of the causes of diseases.	N.Dyspnea ()
15- Sensation of spinning motion.	O.Pharmacodynamics ()

COLUMN A	COLUMN B
1.Tooth ache/pain	A.Pyogenic ()
2.Producing pus	B.Encephalitis ()

3.Condition of dead tissue	C.Dentalgia ()
4. Softening of the cartilage	D.Cystitis ()
5. Vomiting of blood	E.Hematuria ()
6.Inflammation within the heart	F.Pericarditis ()
7.Blood in the urine	G .Hematemesis ()
8.Inflammation of the brain	H. Necrosis ()
9.Inflammation around the heart	I. Chondromalacia ()
10. Inflammation of the bladder	J. Endocarditis ()

COLUMN A COLUMN B 1. Hardening of the arteries A.Hypertrophy () 2.Inflammation of the tongue B.Glossitis () 3.Fatty tumor C.Dermatophytosis () 4. Condition of blueness D.Otoscopic () 5. Pertaining to the heart and vessels E.Lipoma () 6.Excessive growth F.Cyanosis () 7.Fear of water G.Anesthesia () 8. Condition of fungus of the skin H.Hydrophobia () 9. Pertaining to examination of the ear I. Arteriosclerosis () 10. Without feeling or sensation J. Cardiovascular ()

COLUMN A	COLUMN B
1. Inflammation of many nerves	A.Arthrocentesis ()

2. Excessive vomiting	B.Hysterectomy ()
3. Suture repair of a hernia	C.Glucosuria ()
4. Suture repair of the tongue	D.Laparotomy ()
5. Removal of a kidney	E.Arthrodesis ()
6. Removal of the stomach	F.Laryngoscope ()
7. Artificial opening into the colon	G.Otoplasty ()
8. Plastic repair of the ear	H.Gastrectomy ()
9. Tumor of the brain	I. Glossorrhaphy ()
10. Under the skin	J. Cholecystectomy ()
11. Puncture of a joint for removal of fluid	k. Polyneuritis ()
12. Surgical fixation of a joint	L. Hemiorrhaphy ()
13. Puncture of the thorax	M. Cerebroma ()
14. Incision into the abdomen	N. Tympanoplasty ()
15. Instrument used for examination of the larynx	O. Colostomy ()
16. Without fever	P. Subcutaneous ()
17. Plastic repair of the eardrum	Q. Hyperemesis ()
18. Sugar in the urine	R.Nephrectomy ()
19. Removal of the uterus	S.Afebrile ()
20. Removal of the gallbladder	T.Thoracentesis ()
Part 11 (1/2 mark each	1)
Write the medical term that represents the follow	ving definitions.
1- Irregularity of the heart rate or rhythm	
2- The formation of a clot inside a blood vessel, obs	tructing the flow of blood
through the circulatory system	
3- A localized dilation or widening in the wall of the	e heart chambers or artery
(aorta)	
4- The volume of blood pumped from one ventricle	of the heart with each beat-

5- Spasm & narrowing of bronchi leading to bronchial airway obstruction
6- An inherited blood disease associated with tendency to bleeding
7- The whole blood minus both the cells and the clotting factors
8- Stiffness of a joint due to abnormal adhesion and rigidity of the bones of the
joint
9- Elevated blood sugar level caused by insulin deficiency or insulin resistance
10- Sustained muscle contractions cause twisting and repetitive movements or
abnormal postures
11- Drugs bind with their specific receptors and produce an action
12- Drugs that prevents an agonist from binding with receptors to produce an
effect
13- Abnormal drug effect that may usually due to genetic deficiency of
enzymes responsible for drug metabolism
14- Acute viral infectious disease caused by Varicella zoster virus (VZV), that
mainly affects the skin of children
15- The use of an antiserum for protection against specific infectious or toxic
agent
5.Pertaining to the heart
6.Inflammation of the mouth
18. Abnormal, persistent discharge of milk
19. Joint pain

20. Procedure to visually examine inside the body
21. Heart enlargement
22. Pertaining to blood condition of deficient red blood cells
23. Bursting forth of blood from vessels
24. Inflammation of the gum
25. Treatment with chemicals or drugs
Part III (1/2 mark each)
Write your answers in the space provided for each question
1- Angina pectoris is a chest pain resulting from a temporary difference
between the of oxygen to heart muscles.
2- Infraction means death of a part or the whole organ due to obstruction by a
or an
3- Bronchiectasis means chronic dilatation of & due
to inflammation or obstruction.
4- Aplastic anemia is a disorder in which the is suppressed or
stops production of blood cells.
5- Nephrolithiasis is the formation of renal
6- Psychosis means distortion of reality with symptoms such as, -
behavior.
7- Keratoconjunctivitis is inflammation of theandand
8- Bioavailability is the of drug that reaches the

Dr. Saffa Youssef Dr. Hanan Sayed
GOOD LUCK
20.Glossoplegia is a paralysis of the
19.Orchidectomy means excision of a
and
18.A hysterosalpingo-oophorectomy means the excision of the,
17.A salpingostomy is a surgical opening into a
16. Prenatal means before and post febrile means after
15- Wart is an epidermal growth caused by a
14- Kerato- can refer to the or to the tissue.
use of thalidomide during pregnancy and from genetic inheritance.
13- Phocomelia is a rare disorder involving the due to the
 .
12- Headache or cephalalgia is pain anywhere in the region of the or
contaminated food or drink
11- An acute febrile infection caused by Salmonella Typhi ingested via the
in the blood stream.
10- Septicemia is caused by the presence ofand their
9- Infestation is infection caused by microscopic
systemic circulation.



Assiut University Date: 27/1/2012 Faculty of Medicine Time: 1 hours

Department of Anatomy

First semester (January) Examination in Anatomy For 2nd year Student of Clinical Pharmacy

(c) Bones of thigh

All are 65 degrees: الإمتحان في ست ورقات

I-Choose the correct answer	er(45 degrees):
1- All are long bones except:	
(a) Carpal bones	(b) Bones of leg

2-Example of flat bone is:

(c) Bones of forearm

(a) Scapula. (b) Humerus. (c) Vertebra

(d) Air sinuses. (e) Carpal bones **3-All are the contents of the superficial fascia:**

(a) Blood vessels. (b) Glands of skin. (c) Roots of hairs

(d) Muscles. (e) Dermis.

4-Concerning bipennate muscle, which of the following is true:

(a) When the muscle has several tendinous intersections.

(b) When. its tendon appears on one side of the fleshy fibers.

(c) When fleshy fibers are atta9hed to the tendon~ at angles on both sides.

(d) all of the above.

(e) None of the above.

5- The smooth muscles are present in all of the following except one which is:

(a) Urinary bladder. (b) Heart (c) Intestine

(d) Gall bladder. (e) Oesophagus.

6-All are 2ry cartilaginous joint except:

(a) Intervertebral disc.(b) Symphysis pubis.(c) Manubro-stemal junction.(d) radio-carpal joint.

7 - All parts of the vertebra are connected with the same parts of another vertebra except which part.

(a) Pedicle (b) Lamina (c) Transverse process.

(d) Spine (e) Body of the vertebra.

8- Concerning the synovial joint all are true except:

(a) Bony articular ends are large & smooth.

(b) Articular cartilage covers articular surface.

(c) Fibrous articular capsule connects 2 bony ends.

(d) The synovial membrane lines the capsule & covers the articular cartilage.

(e) Synovial membrane secretes small amounts of synovial fluid.

9- The medullary cavi	ty is present in.	
(a) Short bone.	(b) Flat bane	(c) Long bone.
(d) Irregular bone.	(e) Pneumatic b	one.
10- Gums are formed	of	
(a) Skin	(b) Mucus membrane	(c) Dense fibrous tissue
(d) Muscles	(e) B&C.	
11- The wisdom tooth	erupts around the age	of
(a) 16 years	(b) 18 years	(c) 21 years (d) 25 years
12- The pharynx is a r	nuscular tube that	
(a) extends from the bas	se of the skull to the leve	l of C4 vertebra.
(b) extends from the ba	se of the skull to C6 vert	ebra.
	se of the skull to Cs verte	ebra.
(d) extends from Cl ver	tebra to C6 vertebra.	
	mach all are true <u>exce</u> p	
	rt of the alimentary canal	
. ,	between the stomach an	
(c) The left border is sh	orter and forms the lesse	r curvature.
(d) It is formed of fund	us, body and pylorus.	
14- Which of the follow	wing contain villi:	
(a)Stomach.	(b) Large intestine	(c) Pancreas.
(d) Small intestine.	(e) Oesophagus.	
15- Peyer's patches ar		
(a) Ascending colon.	(9) Ileum.	(c) Descending colon.
(d) Caecum.	(e) Stomach.	
	ncreas all are true <u>exce</u>	<u>pt</u>
(a) It is soft lobulated m		
(b) It has endocrine & e		
(c) It is formed of head,		
		al wall infront of stomach.
	e spleen is parallel with	
(a) 7, 8, 9 ribs		(b) 8,9,10 ribs.
(c) 9, 10, 11 ribs		(d) 10, 11, 12 ribs.
	wing veins bring venous	blood rich in products of
digestion?		
(a)Hepatic veins	(b)Portal vein	(c) Bronchial vein
(d) Renal veins	(e) Testicular vein.	
19- The left kidney ext	tends from.	
(a) The level of T10-L2		(b) The level of T11- L5
(c) The level of T12-L3		(d) The level of T10- L1
20- In male, the neck of U.B rests on		
(a) Seminal vesicle	(b) vas deference	(c) Prostate
(d) ureter	(e) None of the above	

21- The narrowest part of male urethra is

- (a) Prostatic (b) spongy
- (d) vesical (e) None of the above

22-The ejaculatory ducts are the union of:

- (a) Ducts of prostate with seminal vesicle.
- (b) Ducts of seminal vesicle with urethra.
- (c) Ducts ,of vas deferens with seminal vesicle.
- (d) Union of bulbourethral duct with vas deference.

23- Efferent ductules open into:

- (a) Vas deference
- (b) Duct of epididymis

(c) Urethra

(d) Penile urethra

24-The normal position of the uterus is

- (a) Anteflexion retroversion
- (b) Retrovesion anteflexion.
- (c) Anteflexion anteversion
- (d) Retroversion retroflexion.

25- The infundibulum of uterine tube opens into:

- (a) Perineum
- (b) Abdominal cavity
- (c) Peritoneal cavity

- (d) Uterine cavity
- (e) None of the above.

26- Pulsation of the apex of the heart can be left in:

- (a) Left 5th rib 9cm (3.5 inches) from midline.
- (b) Left 5th intercostal space 9 cm from midline.
- (c) Left 5th intercostal space 10 from midline.
- (d) Right 5th intercostal space 9 cm from midline.

27 - The inferior vena cava opens into:

- (a) The lower posterior part of the left atrium.
- (b) The lower posterior part of the right atrium.
- (c) The lower anterior part of the right atrium.
- (d) The lower anterior part of the left atrium.
- (e) None of the above.
- 28 · Tricuspid valve connects:
- (a) The right atrium with the left atrium.
- (b) The right atrium with the right ventricle.
- (c) The pulmonary artery with the right ventricle. (d) The left atrium with the left ventricle.

29- The coronary sulcus is the:

(a) Interatrial sulcus.

- (b) Inter-ventricular sulcus.
- (c) The atrio-ventricular sulcus.
- (d) None of the above.

(e) All of the above.

(f) None of the above.

30- Attached to the wall of the right ventricle is(are):

- (a) One papillary muscle.
- (b) Two papillary muscles.
- (c) Three papillary muscles.
- (d) Four papillay muscles.
- (e) None of the above.

enous biood from neart wan to	_
. ,	
(d) Coronary s	sinus
y:	
(b) Upper limb.	(c) Abdomen
(e) None of the above.	
the heart is:	
(b) The pericardium.	(c) The epiocardium.
e. (e) None of the above.	
the heart arise from:	
(b) Internal carotid art	ery
(d) Ascending thoracion	e aorta.
ismits all of the following exce	ept:
(b) Pulmonary artery.	(c) Trachea.
(e) None of the above.	
nto	
te fissure.	
ete fissures.	
fissure.	
e fissures.	
ngle cartilages of the larynx <u>ex</u>	xcept:
rtenoid. (c) Epiglottis.	(d) Cricoid.
the:	
(b) Temporal lobe	
(d) Frontal lobe	
s between:	
e. (b) Pia & arachnoid	
(d) dura & periosteun	1.
rts of the diencephalons excep	ot:
ventricle (c) metathalan	nus.
pus callosum (f) subthalamı	ıs
vity (duct of mid brain) conne	cts.
e 3rd ventricle.	
e 4th ventricle.	
ıbarachnoid space.	
ourth ventricle	
	(b) The inferior (d) Coronary sets y: (b) Upper limb. (e) None of the above. the heart is: (b) The pericardium. e. (e) None of the above. the heart arise from: (b) Internal carotid art (d) Ascending thoracid art (d) Ascending thoracid art (e) Pulmonary artery. (e) None of the above. nto re fissure. et fissures. fissure. et fissures. fissure. et fissures. (c) Epiglottis. the: (b) Temporal lobe (d) Frontal lobe s between: et (b) Pia & arachnoid (d) dura & periosteum rts of the diencephalons exception of the dience

42- The connects the cerebrum with pons.

(a) Brain stem. (b) Medulla oblongata. (c) Midbrain.

(d) Cerebral peduncle (e) 4th ventricle

43- The cranial part of parasympathetic system is present in:

(a) 3, 4,5 &7 cranial nerves.(b) 3,5,7,9 cranial nerves.(c) 3,7,9 &10 cranial nerves.(d) 3, 5, 7&12 cranial nerves.

44- The median part which connects the two cerebellar hemispheres is called.

(a) Vermis (b) dentate (c) peduncle

(d) All of the above (e) None of the above. **45- The peripheral nervous system is formed of.**

45- The peripheral nervous system is formed of.

(a) Cranial nerves(b) sympathetic nervous system(c) Spinal nerves(d) parasympathetic nervous system

(e) All of the above

II- Match (all are 10 degrees):

A) Match each organ from column (A) with its suitable length in column (B)

Column (A)

a. Seminifrous tubules

b. Vas deferens.

c. Female urethra

d. Trachea

e. Duodenum

Column (B)

1. 4 centimeters

2. 10 inches

4. 25 centimeters

5. 10 centimeters

B) Match each cranial nerve from column (A) with its suitable function in column (B)

Column (A)	Column (B)
a.Oculomotor (3 rd cranial) nerve	1. Parasympathetic to the heart.
b.Facial (7 th cranial)nerve	2.Parasympathetic to parotid gland.
c.Trigeminal (5 th cranial) nerve	3.Constricts the pupil
d. Vagus (10 th cranial)nerve.	4. Motor to muscles of mastication.
e.Glossopharyngeal (9 th cranial) nerve	5.taste sensation from anterior 2/3 rd of the
,	tongue

III-Label the diagrams(All are 10 degrees): 2 انتهت الأسئلة



Faculty of Medicine Physiology Department Date: 5/1/2012 Time allowed: 3 hours Total mark: 65

Final Examination

In

Medical Physiology for Third Semester Clinical Pharmacy Students (مقرر مطروح)

I) <u>Blood</u> :	Mark
1- Enumerate functions of reticuloendothelial system.	2
2- Explain the role of blood platelets in hemostasis as one of their function.	2
3- Enumerate three functions of the membrane of red blood cells.	2 2 3
4- Mention concentration, type,s and four functions of plasma proteins.	3
II) <u>Cardiovascular system:</u>	
1- Briefly discuss humeral regulation of heart rate.	3
2- Define rhythmicity and mention effect of temperature, nervous factors, and on rhythmicit.	3
3- Define the following:	2
a- Mary's law. b- Stroke volume.	
4- Describe restoration of plasma proteins and red blood cells as delayed compensatory reactions to hemorrhag.	3
III) Respiration:	
1- Define intrapleural pressure and mention its importance.	3
2- What is the definition and significance of vital capacity?	2
3- Define hypoxia, enumerate its types and mention 2 causes of each.	3
IV) Central nervous system:	2
1- Mention functions of spinal cord.	3
2- Write true for the correct and false for the wrong statement:	2
a- Anterior and posterior nuclei of hypo thalamus regulate body temperatur during exposure to hot and cold weather.	e
b- Medulla oblongata contains cardiac, respiratory and, vasomotor centers.	
V) Endocrinology:	
1- Mention site of secretion and functions of cortisol.	4
2- Describe how oxytocin secretion is controlled and mention its functions.	4
3- In the following statements write true or false:	2
a- Adrenocorticotrophic hormone (ACTH) controls secretion of glucocortic	oids.
b- Posterior nituitary gland secretes antidiuretic hormone and oxytocin	

VI) <u>Autonomic nervous system:</u>	Mark	
1- Mention acetyl choline blockers.	4	
2- Enumerate parasympathomimetic drugs.	4	
VII) <u>Digestive system:</u>	4	
1- Mention functions of HCL.		
2- Describe mechanism of pancreatic secretion.	4	
VIII) Kidney:		
1- What is the endocrine function of the kidney?	3	
2- Mention functions of vasa recta.	3	

Good luck

Professor Ibtisam Elmileegy & Dr Salwa wasfy

Assiut University
Faculty of Pharmacy
Dept. of Pharm. Organic Chem.

Clinical Pharmacy
Pharm. Organic Chem.-3
Jan., 21, 2012
الامتحان مكون من ٧ صفحات

Time allowed 2h Illustrate your answers with chemical equationswhenever possible

الامتحانات الشفهية عقب الامتحان النظرى مباشرة لجميع الطلبة

Answers should be in the specified places

المشاركون في الامتحان النظري

Prof. Dr. Abdel Hamid N. Kafafy

Dr. Ola I. Salim

Heterocyclic chemistry (25 points)

I- Underline the correct answer

1- The IUPAC chemical nomenclature of pyrazine is:

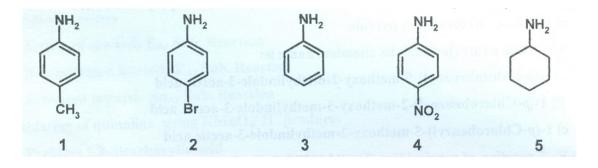
a) I,4-diazine	b) 1,2-diazine	c) 1,3-diazine				
2- Oxidation of β-picoline yield:						
a) plcolinic acid	b) Nicotinic acid	c) Isonicotinic acid				
3- The preferred position (s) for electrophilic aromatic substitution reaction of						
pyridine are:	pyridine are:					
a) α and γ positions	b) only α position	c) β position				
4- Pyridones are considered	as electron source (as	s phenoxide anion of				
phenol) so the ring of						
pyridine becomes						
a) Activated towards E_A	Sub. Reaction					
b) Non activated toward	s E _{Ar} Sub. Reaction					
c) Activated towards Nu	_{Ar} Sub. Reaction					
5- Oxidation of quinoline usi	ng <i>KMnO₄</i> / H [⁺] produce	:				
a) Pyridine 2,3-dicarboxylic acid						
b) Pyridine 3,4-dicarbox	b) Pyridine 3,4-dicarboxylie acid					
c) picolinic acid						
6- The high reactivity of pyrr	6- The high reactivity of pyrrole and furan towards electrophilic aromatic					
substitution reaction resemble:						
a) Nitrobenzene	b) Phenol	c) Both a & b				
7- Pyrrole could be nitrated	using:					
a) Cone. HNO ₃ /H ₂ SO ₄	b) Non acidic nitrating	g agent as				
c) Cone. / H ₂ SO ₄						
8- The non acidic sulphonat	8- The non acidic sulphonating agent used for sulphonation of furan is:					
a) Conc. / H ₂ SO ₄	b) Fuming $/H_2SO_4$	c) SO ₃ / pyridine				
9- Pyridine-N-oxide is						
a) More reactive towards E _{Ar} Sub. Reaction						
b) Less reactive toward	s E _{Ar} Sub. Reaction					

c) Equal r	eactivity to pyr	idine		
10- The reacti	vity of pyridine	-N-oxide is attr	ibuted to	
a) Diverse	e +M,-M effect	only	b) +M effect	c) -M effect
11- EArS read	tion of imidazo	ole provides a ta	automer of:	
a) 4 & 5 s	ubstituted deriv	vatives b) only	/ 4-derivative	c) only 5-drivative
12- The IUPA	C nomenclatur	e of cinnoline is	3;	
a) benzo	(c) pyridazine	b) benzo (b) p	yrazin c) ben	zo (b) pyrrol
13- The IUPA	C nomenclatur	e of indole is;		
a) benzo (b) p	yrrole b) ben	zo (a) pyrrole	c) benzo (c) p	yridine
14- An examp	le of activated	SNR of good le	eaving group is	:
a) 4-chloropyr	idine b)3-ch	loropyridine	c) I-chloropyri	dine
15- The non a	ctivated SN m	echanisms occ	ur at p-position	of pyridine are:
a) pyridyne int	termediate (Eli	mination-addition	on reaction)	b) pyridyne
intermediate				
b) (Addition-el	imination reac	tion)	c) both a& b	
16- The prefer	rred position (s) for EArS read	tions of indole	occurs at:
a) 2-position	b) 3-position	c) 5-position		
17- Knorr pyrr	ole synthesis a	a method of a w	vide application	for preparation of:
a) pyridine	b) furan	c) pyrrole		
18- The trade	name (indocid) its chemical n	ame is:	
a) 1-(p-Chloro	benzoyl)-5-me	thoxy-2-methyl	indole-3-acetic	acid
b) 1-(p-Chloro	benzoyl)-2-me	thoxy-5-methyl	indole-3-acetic	acid
c) 1-(p-Chloro	benzyl)-5-meth	noxy-2-methylir	ndole-3-acetic a	acid
19- EArS read	tion of pyrrimic	dine (HNO ₃ /H ₂ S	SO ₄) produces:	
a) 3-nitropyrim	nidine b) 2-ni	itropyrimidine	c) no reaction	
20- E _{Ar} s reacti	on of uracil oc	curs at:		
a) 5-position c	of pyrimidine	b) 6-position of	of pyrimidine	c) 2-position of
pyrimidine				
21- Oxidation	of isoquinoline	using KMnO ₄ /	H+ produce:	

a) Pyridine 2,3-dicarboxylic	acid	b) Pyridine 3,4	4-dicarb	oxylic acid
b) Picolinic acid				
22- The IUPAC nomenclatu	are of qui	noline is;		
a) benzo (a) pyridine b) be	nzo (b) p	yridine c) ben	zo (c) p	yridine
23- The IUPAC nomenclatu	ure of ison	nicotinic acid is	;	
a) pyridine-2-carboxylic acid b) pyridine-3-carboxylic acid c) pyridine-4-				c) pyridine-4-
carboxylic acid				
24- The chemical structure of pyridoxine (vit. B6) contains;				
a) pyrrole nucleus b) py	rimidine ı	nucleus	c) pyri	dine nucleus
25- Explain the E _{Ar} s reaction of questions 19 and 20.				

Section B (25 points, 1 n) I- State Huckel's rule then give examples for aromatic ions.	
·	(5 points)

II- Arrange the following compounds in order of increasing basisty:





- III- Propose a synthesis for each of the following compounds, from the given starting material and any other needed reagents: (5 points)
 - 1) *m*-Bromobenzoic acid from toluene.
 - 2) Naphthalene from benezene (through Haworth reaction)

IV- Using equations only, write on:

(9 points)

a) Kolbe reaction

b)Cannizaro reaction for benzaldehyde

c)Sandmeyer reaction (one example)

V- Define then draw a mechanism for the following reaction:

(4 points)

Define the mechanism: Mechanism:
Good Luck

Pharmaceutical analytical chemistry 2, Mid-term exam,

Clinical pharmacy students; level 2, class 3. Time allowed: 15 min.

الرقم الكودى:

إسم الطالب:

STATISTICS & COMPLEXOMETRY:

(5 degrees)

Mark()on the most proper "one" statement for each of the following:

1. Precision is:

- a- The concordance (agreement) of a result with the true value.
- b- The concordance (agreement) of a series of results with each others.
- c- A good correlation between response (like absorbance) and concentration of the analyte.
- d- Not considered to be among the analytical method's validation parameters.

2. Coefficient of variation (C.V.) is:

- a- The difference between highest concentration value and the lowest one.
- b- The concordance (agreement) of a series of results with each others.
- c- Defined as standard deviation (S.D.) relative to the mean value (X) and represented as percentage (%).
- d- Calculated as the square of the standard deviation (S.D.).

3. Among a series of replicate amounts, the "outlier" is rejected when:

- a- It is due to "indeterminable error".
- b- It is close to the mean value of the replicates.
- c- The calculated Q- value is higher than the tabulated one.
- d- The calculated Q- value is lower than the tabulated one.

4. "Good Linearity" between response (like absorbance) and concentration of the analyte is obtained when the correlation coefficient (r) is equal to:

- a- zero.
- $b \pm 1.0$
- $c-\pm0.8$
- d- All are correct.

5. Ruggedness as a "validation parameter" of the analytical method is:

- b- the capacity of the method to remain unaffected by small variations in method parameters.
- c- The degree of reproducibility of test results obtained by the analytical method.
- d- The ability of the method to determine very small amounts of the analyte.
- e- The ability of the method to determine one analyte present in interfering mixture.

6. Errors on the analysis of pharmaceutical preparations due to interference from additives (like tablet excipients) can be determined by:

- a- "Internal standard method".
- b- "Standard addition method".
- c- Running a "blank" or a "control" analysis.
- d- "Calibration" of the used apparatus.

7- Stability of M-EDTA chelate is:

a-increased by the decrease in pH value.

b-increased by the presence of other complexing agent(s).

c-independent on the metal type.

d-all are not correct

8-"Chelate effecf" means that:

- a- Chelation has no effect on stability of the complexes.
- b- The chelate formed by multidendate ligand is less stable than that formed by the analogous monodentate ligand.
- c- The chelate formed by multidendate ligand is more stable than that formed by the analogous monodentate ligand.
- d- All are incorrect.

9- Indicator blocking:

- a- occurs when the M-EDTA chelate is less stable than the M-Indcator one.
- b- can be overcome by applying the back titration type of EDTA titration.
- c- an example is blocking of Erio T indicator by AI³+.
- d- all are correct.

10-In displacement EDTA titration type:

- a- Hg²+ is treated with sufficient amount of Mg-EDTA chelate.
- b- Mg²+ is treated with sufficient amount of Hg-EDT A chelate.
- c- Many anions (like SO_4^{2-}) can be determined indirectly.
- d- This type is based on the titration of the Iibrated acid upon EDTA chelation.

11- On the analysis of Cu, Zn and Mg ions by EDTA titration:

- a- Zn & Mg ions are masked by KCN reagent.
- b- [Zn(CN)₄]²-complex is selectively demasked by HCHO and HAc.
- c- The total metals are determined by the direct titration type of EDTA.
- d- Masking and demasking methods decreases EDTA selectivity.

12. On the cyanometric determination of Cu²+:

- b- It is an example of titrations involving unidentate ligands.
- c- Cu-ammine complex is more stable than Cu-cyanide complex.
- d- The end point is the appearance of blue colour.
- e- Erio T can be used as the indicator.

13- On the mercurimetric determination of I:

- a- the end point is the disappearance of red coloured precipitate.
- b- HgI₄²-complex is a stable colourless complex formed during the titration process.
- c- Xylenol orange is used as a metalochromic indicator.
- d- The titration is performed in highly alkaline medium.

14- On chelation of Fe³+ by 8-hydroxyquinoline (oxine):

- a- it explains the mechanism of inactivation of some microorganisms.
- b- One Fe³+ will react with 1,2 or 3 of 8-hydroxyquinoline molecules.
- c-Coordination number of Fe³⁺ is 6; and 8-hydroxyquinoline is a bidendetae ligand.
- d- all are correct.

15- On the determination of water hardness (Ca²⁺ + Mg²⁺) by EDTA:

- a- Ca hardness is determined at pH = 3; using meruxide indicator.
- b- Ca is masked by precipitation at pH 12.
- c- Total hardness is determined by direct EDTA titration using NH₃-Buffer and Erio T indicator.
- d- All are correct.

Faculty of Pharmacy, Department of Pharmaceutical Analytical Chemistry. Clinical Pharmacy Program, Level 2, Class 3, Pharmaceutical Analytical Chemistry.2, Final exam., 26-1-2009, Time Allowed: 2 hours

By: Prof. Dr. Ibrahim Ho Refaat; & Dr. Hanaa M. Abdel-Wadood.

تأكد من أن الإمتحان مكون من ٨ صفحات أي ٤ ورقات

STATISTICS & COMPLEXOMETRY:

(22.5 marks)

I. Statistics:

A- Define: "determinate error" and mention some methods to minimize it. (1.5 marks)

B- In a titrimetric analysis, the following volumes were obtained:

10.1, 9.8, 10.2, 10.0, and 9.9 ml.

(3x1.5=4.5 marks)

- 1- Calculate the "relative standard deviation (RSD)" of these volumes.
- 2- Calculate the "accuracy" of this analysis, if the true value is 9.9 ml
- 3- If an additional titration point takes 10.5 ml; should it be rejected or be retained?

Rejection quotient, Q, at 95% confidence level.

- 1	NIC	2	1	_	(7	0
	No. of	3	4	3	O	/	8
	Observations						
	Q ₉₅	0.970	0.829	0.710	0.625	0.568	0.526

- C- Differentiate by definition between each of the following pairs of statistical terms characterizing analytical methods (3x1=3 marks)
- 1- Accuracy and precision
- 2- Ruggedness and Robustness
- 3- Selectivity and sensitivity

II. Complexometry:

- A- Define: "chelate effect"; illustrate by an example
- (2 marks)

S- Illustrate by drawing only:

- (4 marks)
- 1- Factors affecting shape of EDTA-titration curves.
- 2- Structure of Ca-EDTA chelate
- C- Write the (chemical) equations indicating the following (5x1.5 = 7.5 marks)
- 1- Displacement EDTA titration of Hg²⁺.
 2- Masking and selective demasking of Zn²⁺.
- 3- Cyanometric determination of Cu²⁺
- 4- Oxine chelation of Fe³⁺.
- 5- Relation between Apparent stability constant (K_{HZ}) and Stability constant (K) of M-EDTA chelates

II-Redox Dr: Hanaa Mohammed Abdel-Wadood (Mark = 27.5)

1- Give the scientific terms for the following: (Mark = 5)

- a- The reaction between the oxidizing agent and KI to liberate I₂.
- b- The tendency of the metal to dissolve to the metal cation.
- c- The arrangement of the metals according to their standard potentials.
- d- The effect of PO₄³⁻ on Fe³⁺ to decrease its standard potential.
- e- The reagent which used when Fe²⁺ is determined by KMnO₄ in the presences of Cl⁻.
- f- The reaction between I and IO₃ in strong HCl..
- g- A method for reduction of Fe³⁺ to Fe²⁺ using amalgamated Zn/H₂SO₄.
- h- A type of reaction between phenol and bromine.
- i- A method used for determination of organically combined iodine e.g. chinifon and diiodohydoxyquine.
- j- An equation which gives the relation between the electrode potential and the molar concentration of the metal ion

2- Complete and balance the following equations: (Mark = 5)

$$b-ClO_3^- + I^- + H^+ \rightarrow \qquad \qquad + \qquad \qquad + \qquad \qquad .$$

$$c-AsO_3^{3-} + I_2 + H_2O === + + + .$$

$$d-IO_3^- + Sn^{2+} + H^+ \rightarrow + \qquad + \qquad .$$

$$e-CuS + Zn + H^{+} \rightarrow + + ...$$

3- Choose the correct statement (Mark =	= 5))
---	------	---

- a- The following compound can be determined by direct titration with iodine:
- i- Sulfide ii- Thiosulphate iii- Sulfite iv- Sulfate.
- b- The addition of Zn²⁺ on the standard potential of Ferricyanide/Ferrocyanide is:
- i- Common ion effect ii- Hydrogen ion concentration effect.
- iii- Complexing agent effect iv- Precipitating agent effect.
- c- The equivalent weight of KMnO₄ in strong alkaline medium equals to molecular weight divided by:
- i- One ii- Two iii- Four iv- Five.
- d- The following compounds can be determined bromometrically except:
- i- Phenol ii- Methylsalicylate iii- Serotonin iv- Picric acid.
- e- The most strong oxidizing form of iodine is:
- i- Iodide ii- Iodine iii- Iodate iv- Hypoiodite.
- f- Starch is not suitable as indicator for iodine involving reactions in presences of alcohol because:
- i- Hydrolysis ii- Prevent adsorption iii- Complexation iv- Precipitation.
- g- Ce(SO₄)₂ can be used only in:
- i- Neutral solution ii- Acidic solution iii- Alkaline solution iv- All of the above.
- h- Among the requirements of a substance to be an internal indicator:
- i- Its standard potential is between that of the sample and the standard.
- ii- It explains sharp color change for the oxidized form than that of the reduced one.
- iii- Both i-and ii.
- iv- Non of the above.
- i- Betadine is:
- i- A complex of iodine with nonionic surfactant polymer polyvinylpyrrolidine.
- ii- A complex of iodine with ionic surfactant polymer polyvinylpyrrolidine.
- iii- A complex of iodine with cationic surfactant polymer polyvinylpyrrolidine.
- iv- A complex of iodine with inorganic salt.
- j-Ferrous ion can be determined by:
- i- Standard KMnO₄ ii- Standard K₂Cr₂O₇
- iii- Standard Ce(SO₄)₂ iv- All of the above.
- k- The following compound can be determined iodometrically:
- i- Dimercaprol (PAL) ii- Thioglycollic acid iii- Vitamin C iv- Chloramine T.

4- Put the sign right (v) or wrong (X) on the front of the following statements and correct the wrong one (Mark = 5)

	·	1 1			•	11 1.	4.	
a-	()roanic	compounds	he ox	idized :	in strong	alkalıne	medilim	to $(C)_{2}$
u	Organic	compounds		IUIZCU	m suong	antanne	meanum	$\omega \circ \omega_{j}$

- b- Diphenylamine is a suitable indicator for determination of Fe²⁺ with K₂Cr₂O₇.
- c- Arsenite (AsO₃³-) can be determined by direct titration with standard I₂ using irreversible indicator.
- d- Nitrite (NO₂-) can be determined by direct titration with standard KMnO₄.
- e- Starch is a suitable indicator for determination of iodide ($\overline{\Gamma}$) with standard iodate ($\overline{IO_3}$) in strong HCl.
- f- Normal hydrogen electrode has a standard potential equals to zero at any temperature.
- g- Hydrogen peroxide (H₂O₂) can react as oxidizing or reducing agent according to the corresponding substance reacts with it.
- h- Sodium bicarbonate is added in the preparation of $Na_2S_2O_3$ to increase its solubility.
- 1- Potassium ferricyanide is used as internal indicator in the determination of Fe^{2+} with standard $K_2Cr_2O_7$.
- j- Bromine solution is prepared by dissolving Br₂ gas in water.

5- Give the reason(s) for the following: (Mark = 5)

- a- Addition of KI in the preparation of I₂.
- b- Zinc metal (Zn) can displace copper from its salt solution.
- c- Cu^{2^+} ion can oxidize Γ ion although the ${E^\circ}_{12/21^-}$ is larger than ${E^\circ}_{Cu^{2^+}/Cu^+}$.
- d- Addition of CHCl O₃ in the determination of phenol bromometrically.
- e- Addition of NaOH in the determination of glucose with standard iodine.
- 6- By equations, illustrate how you can analyze a mixture of iodine I_2 and iodide (I), mention, the methods, standard(s), indicator(s) and any conditions required. (Mark = 2.5)

Assiut University Faculty of Pharmacy Pharmacognosy (2)





Clinical Pharmacy Students Level 2. Semester 3

()()

Time allowed: 15 minutes Student Name: Student No..... I- Complete the following statements: $(10 \times 0.5 = 5 \text{ mark})$ 1- is specific test for Ergot alkaloids. 2-..... is a swollen underground stem covered with brown scaly leaves and shows nodes and internodes. 3- For treatment of goutis advised. 5- Star spot is an abnormal structure present in 6- Adenosine is 7- Peppermint used with anthraquinones containing drugs in laxative tea to 8- The diagnostic element for *Datura* herb is and its specific chemical test is 11- State whether the following statements are true or false: $(10 \times 0.5 = 5)$ mark) 1- Narcotic resin of *Cannabis* herb secreted by schizogenous duct () 2- The term herb describes a drug that is composed of the tender parts of plant axis without leaves, flowers and fruit ()3- The antihepatotoxic action of Curcuma due to curcuminoids () 4- Atropine used for treatment of glaucoma ()5- Valerian rhizome has potent sedative action used in nervous diseases () 6- Garlic can be used safely with aspirin. ()7-Etoposide is a naturally occurring compound used in the treatment of lung cancer and testicular cancer ()8- One of the side effects of anthraquinones is *Pseudomelanosis coli* (PMC). () 9- Vinca herb contains bitter principles vincristine and vinblastine which are used as

Good luck

Examiner Dr/ Sabrin R. M. Ibrahim

10- Half bar used for treatment of renal colic

potent anticancer



Time:one hour

Date: 20/1/2009

Anatomy Examination For clinical Pharmaceutical student the 3 <u>rd</u> Semester- January 2009

Answer The Following Questions:-

1- Give an account on anatomy of cranial nerves.

(25 Marks)

2- Illustrate with diagram types of joints with an example of each type.

(20 Marks)

3- Illustrate with diagram anatomy of extrahepatic biliary passages.

(20 Marks)

Good Luck



Assiut University Faculty of Medicine

Department of Medical physiology

Final Examination In "Medical Physiology"

14 January 2009 Time Allowed: 3 ho	ours
e)rt?nergic receptors ?	(marks) .(4 marks) .(3 marks) .(3 marks) .(4 marks)
e arterial blood pressur YPOXIC HYPOXIA? respiratory passages?	(4marks)(6marks)(6marks) e?(4marks) (4marks) (5marks)(3 marks)
	eet: (1marks)
ionship. relationship. rate.	1 marks) Continue→
	Time Allowed: 3 homes. e)

(15) The sinoatrial node is normally the pacemaker of the heart because: (1 marks)

- (a) It is located in the right atrium.
- (b) Of its rate of impulse generation.
- (c) Of its neural control.
- (d) Of its proximity to AV node.

(16) In the heart:

(1 marks)

- (a) Contraction begins normally in the right atrium.
- (b) Excitation process cannot spread directly from atria to ventricles.
- (c) Ventricle shortens from base to apex in order to reduce its diameter.
- (d) All the above.

(17)<u>The autonomic nervous system differs from the somatic nervous system in:</u> (1 marks)

- (a) Having one efferent neuron.
- (b) Preganglionic neurons are located in the anterior horn of the spinal cord.
- (c) Efferent nerves have preganglionic and postganglionic nerve fibers.
- (d) Post ganglionic neurons are located in the dorsal horn cells of spinal cord.

(18) Which of the following effects may be produced by sympathetic stimulation? (1 marks)

- (a) Increased gastric secretion.
- (b) Pupilloconstriction.
- (c) Relaxation of gastrointestinal wall.
- (d) Contraction of plain muscles in the wall of urinary bladder.

(19) Stimulation of the pelvic nerve produced:

(1marks)

- (a) Relaxation of the wall of rectum and contraction of the internal anal sphincter.
- (b) Vasoconstriction of the blood vessels of the penis causing erection.
- (c) Contraction of the urinary bladder wall and relaxation of internal urethral sphincter.
- (d) Relation of external urethral sphincter.

(20) Regarding the following statements write (T) if true and (F) if wrong.(4marks).

- (a) Interstitial fluid is similar to plasma except its higher content of protein.
- (b) The main cation in extracellular fluid is Na⁺ and the main anion is HPO₃.
- (c) The main cation in intracellular fluid is K⁺ and the main anion is HPO₃.
- (d) The average body water is lesser in adult males than in adult females.

Mahmoud R Fadeil & Salwa M Aeleem

Clinical pharmacy program College of pharmacy Assiut university

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MEDICAL TERMINOLOGY EXAMINATION FOR SECOND YEAR STUDENTS (January 2009)

ALL QUESTIONS ARE TO BE ATTEMPTED

TIME ALLOWED 2 HOURS

1. FIL IN THE SPACE IN THE FOLLOWING SENTENCES	WITH THE MOST
APPROPRIATE WORD(S):	(10 MARKS)

II. IN THE RIGHT BOX WRITE DOWN THE OPPOSITE (ANTONYM) OF THE FOLLOWING TERMS: (10 MARKS)

TERM	OPPOSITE (<u>ANTONYM</u>)
1.Amenorrhea	
2. Andro	
3. Endo	
4. Eupnoea	
5. Geriatric	
6. Infertile	
7. Leuck/O	
8. Oligouria	
9. Proximal	
10. Supine	

III. DEFINE THE FOLLOWING TERMS: (10 MSRKS)

1. Dyskinesia		
2. Pericarditis		
3. Infarction		
4. Hematemesis		
5. Lymphopoiesis		
6. Ankylosis		
7. Hyperhydrosis		
8. Hemorrhoids		
9. Pancytopenia		
10. Dysphoria.		

iv. IN THE RIGHT BOX WRITE DOWN THE PLURAL OF THE FOLLOWING TERMS: (10 MARKS)

TERM (singular)	TERM (Plural)
1. Diagnosis	
2. Fish	
3. Fungus	
4. Ganglion	
5. Index	
6. Lumen	
7. Ovum	
8. Pharmacokinetics	
9. Uterus	
10. Vertebra	
V IN THE DICHT DOV WRITE DOWN THE CORD	ECT TEDM IN EACH CENTENCE. (10 MADIZO)

V. IN THE RIGHT BOX WRITE DOWN THE CORRECT TERM IN EACH SENTENCE: (10 MARKS)

1) Mr. Magdi had bloody cough and his doctor sent him to the	
(radiology/hematology/pathology) department to do an X-ray	
2) Mr. Magdi lost much blood because of his cough and developed (leukocytosis/	
hematuria/ anemia)	
3) Mr. Magdi had also some chest pain during morning walks and set an	
appointmet with a (neurologist/ nephrologists/ cardiologist)	
4) Mr. Magdi blood pressure was 120/80 mm/Hg and thus was considered as	
(hypertensive/ hypotensive/ normotensive)	
5) However, His blood potassium level was very high and was told that he had	
(hypokalemia/ hypercalcemia/ hyperkalemia)	
6) Mr. Magdi was considerd to have (glucosuria/ hematuria/ ployuria) as he	
complained of urinating much more often	
7) The urine analysis of Mr. Magdi showed some pus cells in the urine and was	
thought to have (uritis/ cystitis/urinaritis)	
8) Mr. Magdi was recommended to take a (an) spasmolytic/ antibiotic/ analgesic)	
to treat his infection	
9)His blood analysis showed also an increased glucose level and was told to have	
(euglycemia/ hyperglycemia/ hypoglycemia)	
10) He was thus advised to see a (an) (dermatologist/ endocrinologist/	
pathologist) to check his condition	

iv. IN THE RIGHT BOX WRITE DOWN THE REPORT MEDICAL TERM (PREFIX/ROOT OR SUFFIX) FOR THE FOLLOWING TERMS: (10 MARKS)

1.After	
2. Against	
3. Away from	
4. Blue	
5. Expansion, widening	
6. Killing	
7. Large	
8. Middle	
9. Pain	
10. Slow	



الزمن: ساعتان الفرقة: (برنامج الصيدلة الإكلينيكية)

امتحان مادة علم النفس للمستوى الثالث الفصل الدراسي الأول يناير ٢٠٠٩ *************

<u>عزيزي الطالب:</u>

- * تأكد أن عدد صفحات كراسة الإجابة ٨ صفحات.
- * يتكون الامتحان من أربعة أقسام عليك أن تجيب عليها جميعا بعد أن تفكر جيدا.
 - * أجب على أسئلة القسم الأول والثاني في مفتاح الإجابة بالصفحة رقم (١).

مفتاح اجابة القسم الأول

الاستجابة	العبارة	الاستجابة	العبارة	الاستجابة	العبارة
	11		٦		١
	17		٧		۲
	١٣		٨		٣
	٤		٩		٤
	10		١.		٥

مفتاح اجابة القسم الثاني

الاستجابة					
7	ح	ب	Í	العبارة	
				١	
				۲	
				٣	
				٤	
				٥	
				٦	
				٧	
				٨	
				٩	
				١.	

القسم الأول: ضع علامة ($\sqrt{}$) أمام العبارة الصحيحة وعلامة (ع) أمام العبارة الخاطئة فيما يلى: (١٥ درجة)

الاستجابة	العبــــــارة	م
()	التذكر عملية عقلية تعنى إدراك العلاقات القائمة من أجل حل المشكلات.	١
()	الشخص ذو عتبة الإحباط المرتفعة يشعر بالإحباط بسرعة في مواقف كثيرة.	۲
()	تخضع السمات النفسية للفرد للملاحظة والقياس الكمى المباشر.	٣
()	يدرك الأفراد نفس المثيرات التي يتعرضون اليها بطرق متشابهة.	٤
()	تعد الإشارات وسيلة مهمة من وسائل التفكير لدى الأفراد.	0
()	يمكن استخدام اسنراتيجية التفكير الناقد في تنمية الذكاء الموسيقي للأفراد.	7
()	الاعتماد النفسي لدى المدمن يؤدي الى رغبة قهرية شديدة في البحث عن المخدر	<
	وتناوله.	
()	لا يعد الشعور بالإحباط مسألة نسبية.	٨
()	يهتم علم النفس الفسيولوجي بدراسة الأمراض العقلية والنفسية لدى الأفراد.	٩
()	يعتمد منهج الاستبطان على ملاحظة سلوك الأفراد.	١.
()	تفسر النظرية السلوكية الإدمان على أنه وسيلة لإشباع حاجات طفلية لا شعورية.	11
()	تجيب نظرية الذكاءات المتعددة علىالتساؤل هل الشخص ذكى أم لا.	١٢
()	تعرض الفرد منذ الصغر لمواقف الإحباط يساعده على النمو النفسي السليم.	١٣
()	يمكن التحكم في سلوكيات الأفراد اللاحقة.	١٤
()	تعتبر عملية استدعاء المعلومات أسهل من عملية التعرف عليها.	10

القسم الثاني: اختر الإجابة الصحيحة من البدائل التي تلي كل عبار فيما يلي: (٢٠ درجة)

	نفس يقصد به عامل	ا تأثير شديد فى ال	الخبرات التى له	١- سهولة تذكر
سات	د- الملاب	ج- الأولية	ب- الشدة	أ- الحداثة
د- الغضب	ج- الكبت	الغيرة	(شعورية ب-	٢- من الحيل اللاأ- الكذب
د- الخبرة السابقة	ـ التحيز والذاتية	المتاحة ج	التى تعيق التفكير ب- الإمكانات	٣- من العواملأ- الدافعية
معينة فهذا يعد	ت الأخرين لإشباع دوافع ،	ه صفات وانجازان	الانسان الى نفس	٤- عندما ينسبأ- تبرير ا
د- إسقاطا	- كبتا	ج.	ب- تقصما	

٥- يكون أداء الطلاب على الامتحان أفضل إذا جرى في نفس المكان الذي تلقوا فيه دروسهم ، وهذا يفسره

				قانون
د- الحداثة	الأولية	ىمات ج-	ب- الملابس	أ- الشدة
		ى ضوء الذكاء الطبيعي .	راتيجيات التدريس في	٦- من است
د- كتابة المقالات	الزيارات الخلوية	والتلحين ج-	لجسم ب- الغناء	أ- خرائط ا
		، التذكر		
د- مدى الانتباه	ر ج- الخبرة السابقة	ب- مجرد الحفظ والتكرا	استرجاع	ا- مجرد الا
	الدارس فيذا بالدنتكيرا	أربي والمرات تتاري الدرة	: à distribut 1-	۸ مند ا،
	ى الملبس فهذا يعد تفكيرا 			
د- حسی	ج- مجردا	ب- ملموسا و حاسيا	وحدسيا	۱- نصوریا
	علاحا	حیح فکر ته عن نفسه یعد	لمدمن من خلال تصد	9۔ علاح ال
د- أسريا		را حول الشخص زا حول الشخص		_
<u></u> ،سرپ	ع- سرپ	ر، حول استعال	<u> </u>	٠- جد حي
سم بالذكاء	على منافسه تدل على انه يد	عب الشطر نج في التغلب	قة التي يستخدمها لاء	١٠ - الطري
	ج- المكانى			
جة ثلاثة لكل مفردة)	(۳۰ در،	، النقاط بما تراه مناسبا	ث: أكمل بإيجاز مكان	القسم الثالد
			الذكاء الشخصى	١- يقصد ب
			•••••	
	;	استجابة الشخص للإحباط	امل التي تؤثر على ا	٢- من العو
				(j)
				(ب)
				(ج)
			الصراع النفسى	٣- يقصد بـ
			•••••	
		ررية	لحيل الدفاعية اللاشعو	٤- يقصد ا

 من أساليب التوافق السليم للتغلب على العوائق رأ)
(¬)
(5)
٦- من الاضرار النفسية التي تلحق مدمني المخدرات (أ)
(ب)(ب)
······································
٧- من العوامل الذاتية التي تؤدي الى وجود فروق فردية في الإدراك
(j)
(Ļ)
(5)
٨- من العوامل التي تساعد في عملية التفكر
(l)
(E)
9- من خصائص الأفراد ذوى الذكاء المكاني.
١ - س خصالص ١٠ فر١٠ توي الديء المحاتي.
(ب)
(z)
· ١- من عيوب منهج التأمل الباطني.
(1)
(φ)
(ਣ)

القسم الرابع: وضح بإيجاز مايلى: (٢٥ درجة)

النظريات النفسية لظاهرة الإدمان موضحا دورك	١- المقصود بالادمان مع شرح اثنتين من تفسيرات
(۱۰ درجات)	كصيدلي في مواجهة الظاهرة.
م ذكر ثلاثة من الأسس التي قامت عليها النظرية.	٢- المقصود بالذكاء في نظرية الذكاءات المتعددة مع
(۹ درجات)	
(۲ درجات)	٣- ثلاثة من عوامل الوقاية من الشعور باللإحباط.

مع تمنياتي بالتوفيق ،،،،،،،،،،،،،،،،،،،،، عن لجنة الممتحنين د/ منتصر صلاح عمر

Good Luck.

Section A (Statistics and Compexometry)

(25.0 Marks)

A- In the provided table, write the scientific term for each of the following statements: (10.0 Marks)

			(======================================
No.	Scientific term	No.	Scientific term
1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

- 1- Errors which can be avoided.
- 2- Errors which occur by accident or chance.
- 3-The agreement of a measurement with the true or most probable value.
- 4- Concordance of a series of measurements.
- 5- The arithmetic average of all measured values.
- 6- The standard deviation relative to the mean.
- 7 The standard deviation relative to the mean expressed as %.
- 8- The measurement in the middle of the arranged measurements.
- 9- A test used to determine if an outlier is due to determinate or indeterminate error.
- 10-A diget which denotes the amount of quantity in the place in which it stands.
- 11-The maximum number of monodentate ligands that can be bound to the central atom.
- 12- Results from the formation of 5-membered "ring" with metal and two atoms on the ligand.
- 13- Aminopolycarboxylic acids (type of complexon).
- 14- A measure for the stability of the complex.
- 15- A compound whose color changes when binds to a metal ion.
- 16- The release of a metal ion from a masking agent.
- 17- Effective antidote for the treatment of poisoning by copper (Wilson's disease).

- 18- An antidote for the organic arsenical "lewisite."
- 19-Used as antioxidant for the stabilization of drugs which rapidly deteriorate in the presence of trace metals.
- 20-Act as antibacterial and antifungal agents by complexing with iron or copper.

B- Differntiate between each of the following pairs: (10 Marks)

No	Item Item	item
1	Repeatability	Reproducibility
2	Detection limit	Quntitation limit
3	Accuracy	Precision
4	Rugedness	Robustness
5	Selectivity	Specificity

(5 Marks)

C- <u>Give reason(s) for the following:</u> (5 Marks 1-Al³⁺ when determined by EDTA, back (not direct) titration type should be applied.

2-Cadmium complex with ethylene diamine is stronger than that with methylamine.

3- The use of EDTA as antioxidant for stabilization of drugs.

4-The use of 8-hydroxyquinoline as antibacterial and antifungal agent.

Sectin B (Redox Titrations)
1- How can you analyze each of the following mixtures:

(3x2 = 6 Marks)

A- I_2/I^-

B- Fe^{3+}/Fe^{2+}

C- Glucose and sucrose

- 2- Mention the main differences between the following: (2x2= 4 Marks)
- A- Iodometry and Iodimetry

B- Andrew's and Lang's methods.	
3- Enumerate the factors affecting redox potential giving an example a for each: (15 Marks)	
With our best wishes Prof. Dr. G. A. Saleh Prof Dr. H. F. Askal	



Date: 31/1/2010

Anatomy Examination for Clinical pharmaceutical Students 3rd tri smester January 2010

Time, : one Hours

- I- Illustrate with diagram anatomy of the heart and blood vessels attached to it.
- 2- Give an account on anatomy of the <u>lower six</u> cranial nerves.
- 3- Illustrate with diagram anatomy of extra hepatic biliary passages.
- 4-Mention types of joints with an example to each type.

Good Luck



الزمن: ساعتان التاريخ: ٢٠١٠/٣/٥ كلية التربية قسم علم النفس

امتحان مادة علم النفس (برنامج الصيدلة الإكلينيكية)	
الفصل الدراسي الأولُّ يناير ٢٠١٠	
****************	*1

عزيزى الطالب (من فضلك):

- تأكد أن عدد صفحات كراسة اللإجابة ٦ صفحات.
- يتكون الامتحان من أربعة أقسام عليك أن تجيب عليها جميعا.
- أجب على أسئلة القسم الأول والثاني في مفتاح الإجابة بالصفحة رقم (١).

مفتاح إجابة القسم الأول

الاستجابة	العبارة	الاستجابة	العبارة	الاستجابة	العبارة	الاستجابة	العبارة
	١٦		11		٦		١
	١٧		١٢		٧		۲
	١٨		17		٨		٣
	19		١٤		٩		٤
	۲.		10		١.		٥

مفتاح إجابة القسم الثاني

معت إجاب العسم التالي				
	جبه العسم التاتي الاستجابة		الأحدادية	
5	ب	Í	العبارة	
_			١	
			۲	
			٣	
			٤	
			٥	
			٦	
			٧	
			٨	
			٩	
			١.	
			11	

القسم الأول: ضع علامة $(\sqrt{})$ أمام العبارة الصحيحة وعلامة (x) أمام العبارة الخاطئة فيما يلى: (x) درجة

()	يهتم علم النفس الصناعي برفع مستوى الكفاية الإنتاجية وتوفير الظروف المناسية العمل.	١		
()	الشخص ذو عتبة الإحباط المنخفضة يشعر بالإحباط بسرعة في مواقف كثيرة.	۲		
(/	أنشأ فرويد أول معمل لعلم النفس التجريبي بألمانيا سنة ١٨٧٩.	٣		
	-/	تفسر مدرسة الجشطالت السلوك على أنه ارتباط بين المثير والاستجابة	٤		
	-/	يرى فرويد أن عدم الوصول لمرحلة النضج أو النمو ينتج عنه السلوك الشاذ أو	0		
(,	يرى تروية بن عدم بوسون مرسة استناع أو المو يسع عد المسود المناد أو غير الناضح.			
()	ير يقصد بالتوافق الذاتي قدرة الفرد على عقد علاقات تتسم بالتعاون والتسامح مع	٦		
(,	يست بدري ساي سره سرد سي ساي ساي دري سام بدرون وسندي دع			
()	الاعتماد النفسي لدى المدمن يؤدي الى رغبة قهرية شديدة في البحث عن المخدر	٧		
`	,	وتناوله.			
()	اتفق اريكسون مع فرويد في مسألة تجمد الشخصية عند مرحلة البلوغ.	٨		
(<u> </u>	لايستجيب الشخص للإحباط بالنكوص والعدوان في جميع المواقف.	٩		
()	التراخي في معاملة الطفل والتدليل الزائد يسبب له الضرر على المستوى النفسي.	١.		
()	كل استجابات الأفر اد نتيجة منبهات داخلية.	11		
()	يستخدم المنهج الاستبطاني لدراسة حالات التخلف العقلي.	١٢		
()	يسير النمو لدى الأفراد بشكل منتظم نسبيا.	۱۳		
()	لا يُعد ديكُور المكتب من وسائل الاتصال غير اللفظي.	١٤		
()	يعد الاقناع من الشروط الأساسية للتقرير الجيد.	10		
()	تفسر النظرية السلوكية الإدمان على أنه وسيلة لإشباع حاجات طفليه لاشعورية.	١٦		
()	يعد الشعور بالإحباط مسالة نسبية.	١٧		
()	يستخدم اختبار وكسلر في قياس الذكاءات المتعددة.	١٨		
()	تستخدم الألغاز اللغوية لتنمية الذكاء الاجتماعي لدى الأفراد	19		
()	تأثير العدد الصماء في السلوك من اهتمامات علم النفس الاجتماعي.	۲.		
القسم الثاني: اختر الإجابة الصحيحة من البدائل التي تلى كل عبارة فيما يلى: (٢٢ درجة) ١- من منظور فرويد الجانب اللاشعوري عند الفرد الذي يسعى الى تحقيق وإشباع المتعة بغض النظر					
		ا هو متاح أو مباح يسمى	عم		
		ا ب- الهو ج- الأنا الأعلى	أ_ الأذ		
		ن الحيل اللاشعورية	۲_ مز		
		ب ب- ضبط النفس ج- الكبت	أ_ الكذ		

العبارة

الاستجابة

٣- أى مما يلى لايعد من وسائل الإتصال غير اللفظى

ج- الملابس	ب- الابتسامات	أ- التقارير
اقض الوجداني	, تجد صعوبة في حلها بسبب شدة التن	٤- من أشكال الصراع التي
ج- صراع احجام- احجام	ب- صراع إقدام-احجام	أ- صراع إقدام – إقدام
	، غیر ناضج وصبیانی یقصد به	٥- الارتداد واللجوء لسلوك
ج- التقمص	ب- النكوص	أ- الإسقاط
	العلاقة بين الجهاز العصبي والسلوك	٦- العلم الذي يهتم بدر اسة
م النفس الإكلينيكي	النفس الفسيولوجي ج- عا	أ- علم نفس الشواذ ب- علم
استجابة للرسالة	س رد فعل المستقبل واستجابة / عدم	٧- يقصد بالعملية التي تعك
ج- الترميز والتشفير	ب- فك الرموز	أ- التغذية الراجعة
	هت منهج التأمل الباطني أنه	٨- من الانتقادات التي واج
ج- يتسم بالذاتية.	ب- يعتمد على السلوك الظاهري	أ- منهج قديم
	لدى المتعلمين من خلال	٩- تقاس الذكاءات المتعددة
ج- اختبارات الذكاء المقننة	ب- الأنشطة العملية	أ- الاختبارات التحصيلية
مل	. درجة إحباط الفرد وقدرته على التح	١٠ - أهم العوامل التي تحدد
ج- شدة الرغبة في الهدف.	ب- قوة العائق	أ- مستوى عتبة الإحباط
ى مرحلة	يتسم الأطفال بالتمركز حول الذات في	١١- من وجهة نظر بياجيه
رجة – ثلاث درجات لكل جزئية	نقاط بما تراه مناسبا: (۳۰ د	القسم الثالث: أكمل مكان ال
		١ - يقصد بالشخصية:
	على استجابة الشخص للإحباط:	٢- من العوامل التي تؤثر
		ب-
		ج
	اللغوي:	٣- من أساليب تنمية الذكاء
		أ
		ب-
		ج
		٤- يعرف النمو على أنه

٥- من مبادىء عملية الاتصال
ا
ب-

- ٦- يقصد بالذكاء الشخصى
and a set of the set o
٧- من الأضرار النفسية التي تلحق مدمني المخدرات
1
ب-
ऊ
٨- من أهمية عملية الاتصال
أ
ب-
ج-
٩ - من الأسس التي قامت عليها نظرية الذكاءات المتعددة.
ب-
······································
٠١- من أهداف علم النفس
أ-
ب-
القسم الرابع: وضح بالشرح وجهة نظرك فيما يلى: (١٨ درجة – ٦ درجات لكل جزئية)
١- معوقات عملية الاتصال الجيد. (يكتفى بثلاثة فقط)
 ٢- دورك كصيدلى فى مواجهة مشكلة الإدمان. (يكتفى بثلاثة فقط)
٣- كيفية مواجهة الصراع والمحافظة على الصحة النفسية. (يكتفى بثلاث فقط)

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Clinical Pharmacy 2nd level Time allowed: Two hours 5-6-2010

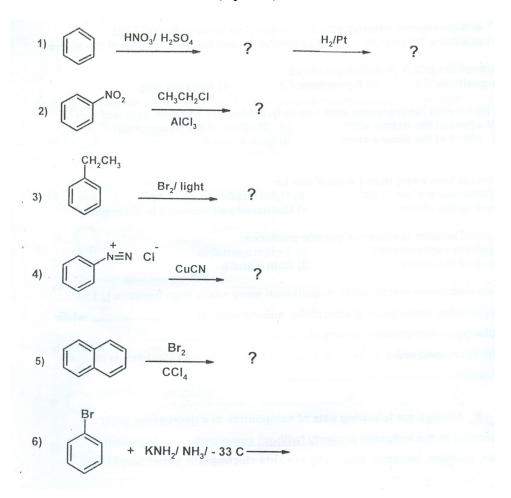
Illustrate your answers with chemical equations whenever possible الإمتحان مكون من خمس صفحات

Part I (25 points, 1 hour)

<u>1 art 1</u> (23 points, 1 nour)
I- Write on the following: (9 points)
(a) Huckel's rule and give examples for aromatic species
(b) Methoxy group is an ortho and para director in S_EAr reactions.
(c) Kolb Reaction

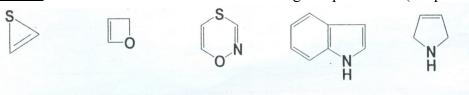
II- By equation only, show the following:	(9 points)
(a)Synthesis of Chloramine T.	
	•••••
(b) Synth esis of naphthalene through Haworth reaction.	
	•••••
	•••••
c) Mechanism for bromination of benzene	
	•••••
	•••••
	•••••
	•••••
	•••••
	••••••

III-Complete the following equations, using chemical structures. If no reaction occurs, write "no reaction": (7 points)



Part II (25 points)

Question 1: Give the IUPAC name for the fllowing compounds: (2.5 points)



Question 2: Complete the following sentences or choose the correct answer: (10 points)

- 1- Reaction of pyrrol with acids gives:
- a) 2-hydroxypyrrole b) potassium pyrrolate
- c) polymerization products

	Typical Diels-Alder reacti a) Furan	on is characteri b) Pyrrole		iophene		
	ES ^{Ar} of 6-membered heter a) α -positions C2 and C6					
	Electrophilic attack in indo a) α-positions C2	ole occurs at: b) β-positions	C3	c) Benzene ring		
ä	Six membered heterocycles va) +M effect of the hetero at c) -1 effect of the hetero at	atom		of the hetero atom		
á	Pyrrole is less basic than pa) Hybridization state is Spe) None of the above	p^2	b) Hybridizat	tion state is Sp ³ solved in aromaticity		
а	7- Riemer-Tiemann reaction on pyrrole produces: a) 2-pyrrole carbaldehyde b) 3-chloropyridine c) None of the above d) Both a and b					
8- 1	Indole undergoes electropl	hilic substitutio	on more easily	than benzene ().		
	Isoquinoline undergoes ele nucleophilic substitution c		stitution at	while		
	The decreased order of ba			d piperidine is as		
Qu	estion 3: Arrange the follo	owing sets of co	ompounds in a	decreasing order		
	according to the indic	cated property (without comn	nent): (2 points)		
1-]	Furan, pyridine, benzene (reactivity towa	rds electrophi	lic substitution)		
2-]	Benzoic acid, p-CH ₃ -benz	oic acid, p-N0 ₂	-benzoic acid,	acetic acid (acidity)		
	estion 4 : Answer the follo Perkin reaction	- , -	ŕ			
•••••						
•••••						

3) Give the reaction name for quinoline synthesis:

Question 5: complete the following reactions or complete the equations: (7 points)

Good Luck

الامتحان الشفهى بعد النظرى مباشرة مع دعواتنا بالتوفيق والتفوق: د. سامية جلال أحمد ود. علا ابراهيم عبد الرازق



Assiut University	Department of
Faculty of Medicine	Medical Physiology
Final examination	9 th _January 2011
2 nd year Clinical Pharmacy Students	Time: 3 hours

1) Blood: (7 marks)

a. In summary discuss intrinsic mechanism of blood coagulation. (7 marks)

2) Cardiovascular system: (12 marks)

- a.**State** the hypothesis of Mary's law and its mechanism. (3 marks)
- b.**Define** peripheral resistance and discuss its effect on arterial blood pressure.

(4 marks)

c. **Define** excitability of the cardiac muscle and discuss its phases. (5 marks)

3) Respiration: (8 marks)

- a. Give an account on the physiological importance of surfactant. (4 marks)
- b.**Define** hypoxic hypoxia and enumerate its causes. (4 marks)

4) Central nervous System: (5 marks)

a. Mention three functions of hypothalamus. (5 marks)

5) Endocrine glands: (10 marks)

- a.**Enumerate functions** of parathormone on different organs. (5 marks)
- b.**Discuss** actions of insulin on metabolism. (5 marks)

6) Digestive System: (8 marks)

- a. Discuss gastric phase of gastric secretion. (3 marks)
- b. **Discuss** functions of **small intestine hormones**. (5 marks)

7) Kidnevs: (5 marks)

- a. Enumerate cause and site of release of renin. (2 marks)
- b. **Discuss** actions of atrial naturetic peptide on kidney. (3 marks)

8) Autonomic nervous System: (10 marks)

a. CD is a 44-year-old woman who had spent much of the day working in her garden. A blustery wind caused her to unintentionally **inhale the insecticide** that she was spraying throughout the garden. When she began **wheezing severely**, she was taken to the emergency room. The attending physician observed other symptoms including **constricted pupils** and a **slowed heart rate**. CD was treated with the intravenous administration of **atropine sulfate**. (5 marks)

1.Insecticides contain organophosphates which inhibit acetylcholinesterase. **What** is the function of acetylcholinesterase?

- 2. **Which types** of autonomic receptors are excessively stimulated as a result of this inhibition?
- 3. **Which division** of the ANS has been primarily affected the sympathetic or the parasympathetic?
- 4. What effects may the insecticide have on the gastrointestinal system? Explain.
- 5. Why is atropine an appropriate treatment?

b. Enumera	tes action of s	ympathetic ne	ervous system	n of pelvis. (5 marks)

GOOD LUCK PROFESSOR MANERVA KAMAL & OR ENAS A HAMED

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29	A	B	0	(D)			29	(F			59	1	(F)	
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	\circ						- 0		$\overline{}$			~ ~			

<u>In the answer sheet. shade the most appropriate answer for each of the following MCOs:</u>

1- Mr Ali had a sudden severe chest pain during a morning walk and set an						
appointment with a:						
A) Pathologist	B) Urologist	C) Cardiologist				
2- His blood pressure w	as 190/120 mm Hg and t	hus was considered as:				
A) Hypertensive	B) Hypotensive	C) Normotensive				
3- His heart rate was 13	0 beat/min. and thus was	considered to have:				
A) Bradycardia	B) Heart failure	C) Tachycardia				
4- His heart also showed	d some irregular beats in	dicating that he has:				
A) Hypotension	B) Bronchial asthma	C) Dysrhythmia				
5- Mr. Ali had a bloody	cough and his doctor ser	nt him to one of the following				
departments to do an X-	-ray:					
A) Radiology	B) Hematology	C) Pathology				
6- He lost much blood of	lue to his cough. His hen	noglobin value was very low. Thus he				
developed:						
A) Leukocytosis	B) Anemia	C) Hematuria				
7- Urine analysis of Mr.	7- Urine analysis of Mr. showed some pus cells in the urine and was thought to have:					
A) Uritis	B) Cystitis	C) Urinaritis				
8- He was thus advised	to take one of the follow	ing agents to treat his infection:				
A) Bactericidal agent	B) Antispasmodic	C) Analgesic				
9- Besides, his blood an	alysis also showed an in-	creased glucose level and was told				
that he has:						
A) Euglycemia	B) Hyperglycemia	C) Hypoglycemia				
10- To be treated, he wa	as advised to go to a(an):					
A) Endocrinologist	B) Pharmacologist	C) Dermatologist				
11- Inflammation of the	gums is called:					
A) Conjunctivitis	B) Keratitis	C) Gingivitis				
12- A drug that decrease	es an elevated body temp	perature is called a(an):				
A) Antipyretic	B) Anti-inflammatory	C) Antiepileptic				
13- Epistaxis means ble	eding from:					
A) The nose	B) The rectum	C) The mouth				
14- Gynecomastia refer	s to enlargement of the:					
A) Limbs	B) Breast in males	C) Face and neck				
15- An agent that preve	nts bleeding is termed a	(an):				
A) Hemiplegic	B) Hematinic	C) Hemostatic				

16- A decreased oxygen	supply to an organ is ca	lled:
A) Stenosis	B) Ischemia	C) Stagnation
17- Intradermal means:		
A) Inside the skin	B) Beneath the skin	C) On the skin
18- Hypematremia mean	ns an increased level of o	one of the following ions in the blood:
A) Calcium	B) Potassium	C) Sogium
19- Dementia means los	ss of:	
A) Sleeping	B) Memory	C) Appetite
20- Dysphoria is the opp	posite of:	
A) Euphoria	B) Mephoria	C) Aphoria
21- Infarction means:		
A)Decreased growth of	cells	
B)Necrosis of some cell	S	
C)An anomaly in a grou	ip of cells 22- Xerostomi	a means difficulty in:
A) Defecation	B) Micturition	C) Swallowing
23- Tactile pertains to the	ne sense of:	
A) Vision	B) Touch	C) Smell
24- Haemoptysis refers	to the presence of blood	in:
A) Cough	B) Vomitus	C) Stools
25- Rhinorrhoea means	increased flow of:	
A) Blood from a wound	B) Nasal discha	rge C) Menses
26- Stomatitis means in:	flammation of:	
A) Stomach	B) Tongue	C) Mouth
27- Cholecystitis means	inflammation of:	
A) Gall bladder	B) Urinary bladder	C) Ovaries
28- Polydepsia means ex	xcessive:	
A) Thirst	B) Eating	C) Sneezing
29- Osteomalacia means	s softening of:	
A) The skin	B) The liver	C) The bones
30- Menopause refers to	cessation of:	
A) Menstruation	B) Vomiting C) Blee	eding

IN THE ANSWER SHEET, SHADE "T" FOR TRUE STATEMENTS AND "F" FOR FALSE ONES:

- 1- Viral hepatitis means inflammation of the kidney due to a viral infection
- 2- Aerobic bacteria grows only in the absence of oxygen
- 3- A lactagogue is a substance that increases the secretion of milk
- 4- A disaccharide is a carbohydrate molecule containing two units of sugar
- 5- Adenopathy means a disease in a secreting gland
- 6- Amylase is the enzyme that breaks down starch
- 7- Metastasis means spreading of a tumor in all of the body
- 8- Idiopathic means a disease of an unknown cause
- 9- A peptide is a compound of 2 or more enzymes
- 10- Efflux means the outward flow of molecules from a cell to the outside
- 11- Anorexia means an increase in food intake
- 12- Pharmacokinetics is the study of the movement of drugs within the body
- 13- Relative contraindication is the opposite of indication
- 14- Idiosyncrasy means an unexpected effect of a drug due to a genetic abnormality
- 15- A neonate is an infant up to 28 days of age
- 16- Aetiology is the study of the cause of a disease
- 17- Signs are pathological phenomena discovered by the physician upon examination of the patient
- 18- Cyanosis is the bluish coloration of the skin due to oxygen sufficiency
- 19- Mydriasis is constriction of the eye pupil
- 20- Menorrhagia means excessive menstruation
- 2I- A trichogen is an agent that promotes hair growth
- 22- An adipocyte is a fat cell
- 23- Galactorrhea refers to abnormal milk flow from the breast
- 24- Testectomy means surgical incision of the testes
- 25- Nephroma means a tumor in the kidney
- 26- Proteolytic pertains to the decomposition of proteins
- 27- Hypothyroidism is the opposite of thyrotoxicosis
- 28- Hypophyses pertains to the pituitary gland
- 29- Arthrosclerosis means stiffness of joints
- 30- Coronary stenosis means narrowing of the coronary artery
- 31- Osteoporosis means an increase in the bone mass
- 32- The electroencephalograph records the electrical properties of the brain

- 33- Hemiparesis means paralysis of one half of the body
- 34- A hypnotic is an agent that induces sleep
- 35- Inability of voice production is called phonophobia
- 36- The endocardium is a membrane around the heart
- 37- Dyspnea is the opposite of apnea
- 38- Antecibum means after meals
- 39- A sialagogue is an agent that increases salivary glands' secretions
- 40- Hyperphagia means excessive eating
- 41- Nocturnal enuresis means bed wetting at night
- 42- Pyuria means the presence of pyrogenic bacteria in urine
- 43- Haemopoiesis refers to formation of the cellular elements of blood
- 44- Myelosuppression is decreased activity of chondroblasts
- 45- Dialysis means removal of toxic materials from the blood by diffusion across a semipermeable membrane
- 46- Alkalosis pertains to a decrease in the blood pH
- 47- Granulocytopenia means chronic reduction in blood granulocytes
- 48- Supine refers to the position of an individual lying down with his face facing the ground .
- 49- Gallstones is the synonym of cholelithiasis
- 50- Melina refers to dark green tarry stools containing hemolysed blood
- 51- Tracheotomy means surgical opening of the trachea
- 52- Extension of an arm means its bending towards the chest or abdomen
- 53- Opisthotonus refers to a position where the body lies in an arch-shape, with both heels and the head only touch the ground
- 54- Varicose veins means abnormally swollen and twisted veins usually occurring in the legs
- 55- Hypodermic is the opposite of subcutaneous
- 56- Otitis media means inflammation of the middle ear
- 57- An osteoclast is a bone cell that increases bone growth
- 58- Oligospermia means a decrease in the quantity of sperms
- 59- Incontinence means inability to prevent discharge of urine or stools
- 60- Xerophthalmia means dryness of the cornea & conjunctiva



Assiut University Faculty of Pharmacy Pharm. Anal. Chem. Dept. Clinical Pharmacy Program Pharm. Anal. Chem. (2) PC 306

Jan. 27, 2011

Time Allowed: 2 hours

الامتحان يتكون من ثماني صفحات مختلفة

1. Redox Titrimetry

(25 marks)

A- Give reason(s), illustrated with equations:

 $(4 \times 2 = 8 \text{ marks})$

1- Cu^{2+} oxidizes I although $E^{\circ}Cu^{2+}/Cu^{+} = +0.16$ V while $E^{\circ}_{12/21} = +0.54$ V.

2- Addition of Zimmermann's reagent when FeCl₂ is titrated with permanganate.

3- Diphenylamine alone is unsuitable indicator for the titration of ferrous with dichromate.

4- The use of 4-6 N HCl Andrew's reaction.	

- B-Draw the structures of the reduced and oxidized forms of the following redox indicators: $(2 \times 2^{1/2} = 5 \text{ marks})$
 - 1- Diphenylamine

2- Ferroin

C-	How	can	vou	analy	ıze	the	follo	wing	(give	equations	s) .
\sim	110 00	Can	you	aman		uic	10110	, , , , , , , , , , , , , , , , , , ,	(ZI V C	cquation	<i>.</i>

$$(6 \times 2 = 12 \text{ marks})$$

1- Sodium sulphide – thiosulphate mixture.

2- Phenol – salicylic acid mixture.

3- Ferric – Ferrous sulphate mixture.

4- PbO in litharge
5- Moisture content in pharmaceuticals.
o monstare content in pharmaceurouns.

6- Reduced iron.

II. Complexometry

(16 marks)

A- Complete the following:

 $(10 \times 1 = 10 \text{ marks})$

- $3- \text{Co}^{3+} + \text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2$

- 4- Mn²⁺ + EDTA
- 5- Coordination number is
- 7- An indicator is said to be blocked when
 - and indicator blocking can be avoided by
- 8- EDTA selectivity can be increased by

9- Masking is	and can be achieved
by	
10- Alkalimetric EDTA titration is	
B- Explain the following:	$(4 \text{ x } 1\frac{1}{2} = 6 \text{ marks})$
1- Liebeg's method and its modifications.	
2- Stepwise and overall stability constants	
3- Effect of other complexing agents on stability of	metal-ETDA complexes
4- Determination of mixture of Bi ³⁺ & Pb ²⁺	

III. Statistics: (9 ma	rks)	
------------------------	------	--

- A- Differentiate between each of the following: $(5 \times 1 = 5 \text{ marks})$
- 1-Random and systemic errors
- 2- Accuracy and precision
- 3- Ruggedness and robustness

- 4- Specificity and selectivity
- 5- Correlation coefficient (r) =0.998 and -0.998

- B- The following results were obtained for the determination of paracetamol tablets 7.21, 7.16, 7.14, 7.14, 7.18, 7.11, 6.81 (4 marks)
- 1. One value appears suspicious. Determine if it should be rejected or not. (Tabulated $Q_{95\%}$ =0.568).
- 2. Calculate mean, median, spread, standard deviation, variance and coefficient of variation for the remaining results.

Prof. Dr. Michael Elia Elkommos

Dr. Sameh Abdel-Raouf Ahmed



Assiut University
Faculty of Pharmacy
Pharm. Anal. Chem. Dept.

Pharm. Anal. Chem-2 2nd Semaster 2010/2011 Final Exam

June 26, 2011 Time Allowed: 2 hours

الامتحان يتكون من عشر صفحات

QUESTION I (REDOX THEORY) (19 marks) A. Write the correct litter for each of the following numbers: (5 marks) 1. Ionic pressure is A. the stronger the oxidizing power of its oxidant 2. The higher E° B. the tendency of the metal to dissolve in a solution of its salt C. a primary redox standard 3. Increasing acidity 4. Iodimetry is used for D. the tendency of the metal cation to deposit on its metal dipped into its solution 5. Potassium iodate is E. the stronger the reducing power of its reductant 6. Methylene blue is used as F. irreversible indicator for determination of FeCl₃ with TiCl₃ G.irreversible indicator for determination of 7. Iodometry is used for FeCl₂ with ceric sulphate. H. increases the oxidation potential of arsenate 8. KSCN is used to 9. Sodium bicarbonate I. a secondary redox standard 10. Ceric sulphate is used as K. decreases the oxidation potential of arsenate/arsenite system L. desorb I₂ from Cu₂I₂ ppt M. determination of reducing agent samples N. determination of oxidizing agent samples B. Choose the correct answer from (A), (B), (C) & (D) and then write the correct letter (capital form) in the following table (5 marks) Ouestion No. 5 6 10

1. Oxidizing agents exert its action on human tissues by:

(a) Liberation of oxygen in the tissues

Correct Letter

- (b) Denaturing the proteins
- (c) Liberation of protons in the tissues
- (d) a & b

2. Antioxidants exert its action by the following mechanisms except:

- (a) Catalyzing the formation of reactive radicals
- (b) Repairing the oxidative damage to the bio-molecules

- (c) Induction of the enzymes that catalyze the repair mechanisms
- (d) Reaction with the generated reactive radicals

3. Addition of HgCl₂ to I₂/21 system will:

- (a) Form complex with 1₂
- (b) Increase its oxidation potential
- (c) Decrease its oxidation potential
- (d) Precipitate 1₂

4. KI is added to iodine to:

- (a) Increase the solubility of iodine lnwater
- (b) Control the oxidation potential
- (c) Decrease the volatility of iodine
- (d) a & c

5. Addition of fluoride ions to Fe^{3+}/Fe^{2+} system will:

- (a) Precipitate Fe3+ions "
- (b) Increase its oxidation potential'
- (c) Decrease its oxida'tibn' potential
- (d) All of the above

6. KMnO₄ can be standardized by using

- (a) Oxalic acid
- (b) Ferrous sulphate
- (c) Arsenious oxide
- (d) All of the above

7. Decomposition of Na₂S₂O₃ can be avoided by using the following except

- (a) Recently boiled and cold distilled water
- (b) Addition of Na₂CO₃
- (c) CO2 containing water
- (d) Addition of borax

8. All the following facts concerning hypoiodite ion are true except:

- (a) It is stronger oxidizing agent than I2
- (b) It is used for determination of aldehydes
- (c) Its excess is converted to iodine by acidification
- (d) It is prepared by iodine in acid medium

9. In Andrew's reaction, all the following facts are true except

- (a) It depends on the reaction of I with IO_3^- to form I_2
- (b) Iodine is oxidized with iodate to form I⁺ ion
- (c) I⁺ ions is stabilized by chloride ions
- (d) The reaction occurs in weak acid medium

10. Errors due to starch can be overcome by

- (a) Using freshly prepared starch solution
- (b) Using recently boiled and cooled .distilled water
- (c) Addition of boric acid to starch solution
- (d) a & c

C- Interpret each of the following:

(3 Marks)

1. Although the oxidation potential of I₂/21 system (0.54V) is higher than that of ferri/ferrocyanide system (0.36 V), the ferricyanide ions can oxidize iodide to iodine in presence of Zn²+ ions

2. 1_2 oxidizes Cu^+ to Cu^{+2} in presence of tartarate or citrate, but Cu^{+2} can oxidize iodide into iodine in the determination of $CuSO_4$ (E° of $Cu^2 + /Cu^+ = 0.15V$ & of $1_2/21^- = 0.54V$)

D. In the titration of 100 ml of 0.1 N Fe²+ (E° of Fe²⁺/ Fe^{3+} = 0.77V) with 0.1 N standard Ce(SO₄)₂ (E° of Ce^{4+}/Ce^{3+} = 1.45V) in sulphuric acid medium, The balanced equation is written as follows (1) and the indicator used is (2). The potential at the equivalent point is calculated from the equation (3) and equal (4) volt. The interference of Cl⁻ ions, if present, can be eliminated by addition of (5) reagent which is composed of (6) in order to (7), (8) and (9). Calculate the potential (10) after addition of 50.0 ml of 0.1 N Ce(SO₄)₂.

Write your answers in the following table

(6 marks)

No.	Answer	No.	Answer
(1)			
(2)		(3)	
(4)		(5)	
(6)		(7)	
(8)		(9)	
(10)			

(19 marks) (7.5 marks)

A. How can you analyze the following acids: 1- Ascorbic acid

2. Oxalic acid

3. Carbolic acid (phenol)

4. Thioglycolic acid

5. Formic acid

B. Mention the method(s) for determination of the following: 1. Sulphate	(6 marks)
2. Nitrite	

3. Moisture

C. State the principle for analysis of each of the following mixtures $1. I_2 \& Kl$ (6 marks)

2. K₂S₂O₈ & KHSO₄

3. Glucose & sucrose

QUESTION III (COMPLEXOMETRY)

(20.5 marks)

A- Mark $[\sqrt{\ }]$ for the correct statement and [x] for the wrong one, underline the wrong words and then correct it in the correction column. (8 marks)

words and then correct it in the correction column.		(8 marks)
The statement	Mark	Correction
1. EDTA reacts with all metals in 1 : 1 ratio.		
2. Ethylenediamine-copper complex is more stable		
than copper - amine complex.		
3. Calcium - EDTA chelate is strong enough to be		
titrated in acidic medium.		
4. Mercuric - EDTA complex is more stable than		
zinc EDTA complex.		
5. Unidentate ligands are not suitable for titration		
of metal ions.		
6. Lead-tartarate complex is more stable than the		
lead - EDTA complex.		
7. Defroxamine mesylate forms a water soluble		
chelate with ferric ions.		
8. Complexone IV (CDTA) forms stronger metal		
complexes than does EDT A.		
9. Displacement titration is applied for metal ions		
that do not have a satisfactory indicator.		
10. Aluminum chloride can be determined by direct		
titration.		
11.Triethanolamine masks ferric ions.		
12. Oxine and its analogs act as antibacterial and		
antifungal agents by complexing with Ca or Mg		
ions		
13. Metallochromic indicators are affected by the		
presence of selected metal ions and pH of the		
reaction mixture.		

B- Choose the proper indicator(s) for each	of the following titrations:	(3.5 marks)
1- Calcium ions with EDTA at pH 12.	[]

	2- Chloride ions with mercuric nitrate.	[]
	3- Mercuric ions with thiocyanate.	[]
	4- Zinc ions with EDTA at pH 5.	[]
	5- Bismuth ions with EDTA at pH 1-3.	[]
	6- Magnesium ions at pH 10.	[]
	7- Iodide ions with mercuric nitrate.]	1
C	. Complete the following sentences with 1	missing word(s):	
	1. An indicator is said to be blocked who	en:	
	a		
	b		
	2. In many titrations an	is employed	I to prevent the ion from
	precipitating in the absence of EDTA.		_
	3. EDTA selectivity can be increased by	:	
	a		
	b		
	C		
	d		
	4. The stability constant of EDTA –com	plexes may be alto	ered by:
	a		
	b		
	5. Determination of copper by cyannome	_	-
	following equations;		
	6 Damasking is		
	6. Demasking is	•••••	

D. How can you analyze mixture of magnesium and aluminium ions? (2 marks)

QUESTION IV(STATISTICS)

(11 marks)

A- Calibration data for a chromatographic determination of vitamin K1 in a mixture of water soluble vitamins are shown in the following table: (4 marks)

Sample concentration (X _i)	Peak area (Y _i)
(µg/ml)	
5	3.7
15	11.2
20	14.3
25	18.2
30	21.9
35	25.1
Unknown concentration	9.2

- (a) Determine by the least square method the equation of the best straight line for the calibration curve
- (b) Calculate the sample concentration for the unknown sample.

- Complete the following	g statements	s:			(7)	marks)	
1. The analytical	method	is	considered	precise	if	the	RSD%	is
2. If the calculated observation can be	Q-value							ted
3. The value of (r) m	ust lie betw	een					wh	ich
indicates		•••••						
4. Significant figure is								
5. Sampling is		•••••	•••••					
6. LOD is								
while, LOQ is								
7. The analytical proc	edures are	divid	ded into three	different	type	es;		
a								
b								
c					•••••			

Prepared by: Dr. Hassan Farghaly Azkel, Dr. Sameha Abdel-Rahman,
Dr. Ashraf Mohamed Mohamed & Dr. Noha Nahedj Attia

إعلان للطلاب بخصوص إمتحان الشفوي

تنعقد امتحان الشفوى بعد الامتحان النظرى مباشرة ابتداءا من الساعة الثالثة والنصف عصرا لكل الطلاب طبقا للتوزيع الآتي:

المجموعة الأولى (من رقم 1-200): ابتداء من الساعة الثالثة والنصف عصرا المجموعة الثانية (من رقم 100-100): ابتداءا من الساعة الخامسة والنصف مساءا

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المادة: علم النفس
                                                                                جامعة أسيوط
 برنامج الصيدلة الإكلينيكية ف(٣)
                                                                                  كلية التربية
                                                                                قسم علم النفس
                 الزمن: ساعتان
                           امتحان الفصل الدراسي الأول دور يناير للعام الجامعي ١٠١/٢٠١٠م
                                                                      أجب عن الأسئلة الآتية:
                                                                  السؤال الأول: (٣٠ درجة)
تعد الشخصية مفهوما مجرداً ليس له مقابل حسى ويشير الى جوانب متعددة ومتنوعة ومتشابكة في
                                                                   علاقاتها ناقش ذلك موضحا
(ثلاث درجات)
  ( ۹ درجات)
                                                   ١- تعريف الشخصية من وجهة نظر ألبورت
                                                          ٢- مكونات الجهاز التنفسي عند فرويد
          ( ۹ درجات)
          ( ۹ درجات)
                                                                   ٣- علامات الصحة النفسية
                                                                السؤال الثانى: (٣٠ درجة) ناقش النقاط التالية بإيجاز:
                                                          ١- الصحة النفسية مسألة نسبية
                                            ٢- أنواع الصراع النفسي موضحا ذلك بالأمثلة.
                ٣- الإجراءات التي يمكن القيام بها لوقاية شبابنا من الوقوع في براثن الإدمان.
      السؤال الثالث: (٣٠ درجة)
من القواعد الأساسية في مجال التفكير أن البداع نسبي وغير مرتبط بالذكاء. ناقش ذلك موضحا.
(ثلاث درجات)
  ( ۹ درجات)
                                            ١- العوامل التي تساعد على إثارة قابلية المتعلم للتعلم
                                            ٢- مراحل التذكر والعوامل التي تساعد على القيام به.
  ( ۹ درجات)
                                                         ٣- أنماط القيادة والنظريات المفسرة لها.
  ( ۹ درجات)
                          ***** (انتهت الأسئلة) ******مع تمنياتنا بالتوفيق والنجاح
       د/ صمویل تامر بشری
 د/ عيد الله محمد عبد الظاهر
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زمن الامتحان/٦٠ دقيقة

تاريخ الامتحان: ٢٠١١/١/٢٥

MCQ Anatomy Exam for clinical pharmacy class III students

المادة: التاريخ: الفرقة: الأسم:

الدرجة: الرقم السرى:

- ممنوع استخدام القلم الرصاص
- ممنزع استخدام الأقلام الملونة (الاحمر الأخضر)
 تظلل خانة الاجابة فقط
- لاتظلل اجابتين لنفس السؤال والا تعتبر الاجابة خاطئة
- زمن الامتحان ٦٠ دقيقة من (الساعة ٩ صباحا وحتى ١٠ صباحا)

Directions: Please fill in marks like this: \bullet . Not like this: $\circ \otimes$

ANSWER SHEET

5	Secret r	number.	:													
		1 1	2 2 2	333	4	(5)		6 (7 7 7	8 8	9 9		م كتابة علامة ف		أى رقم	
1	(A)	В	©	(D)		26	A	В	0	0		51	A	В	0	(D)
2	A	B	0	D		27	A	B	0	D		52	A	B	0	0
3	A	B	0	D		28	A	B	0	D		53	A	B	0	(D)
4	A	B	0	D		29	A	B	0	D		54	A	B	0	D
5	A	B	0	(D)		30	A	B	0	D		55	A	B	0	D
6	A	B	(C)	D		31	A	B	0	D		56	A	B	0	D
7	A	B	0	D		32	A	B	0	0		57	A	B	0	0
8	A	B	0	(D)		33	A	B	0	D		58	A	B	0	0
9	A	B	0	D		34	A	B	0	D		59	A	B	0	0
0	A	В	0	(D)		35	A	B	0	D		60	A	B	0	D
11	A	B	0	D		36	A	B	0	D		61	A	B	0	D
12	A	B	0	(D)		37	A	B	0	D		62	A	B	0	0
3	A	B	0	(D)		38	A	B	0	0		63	A	B	0	D
4	A	B	0	0		39	A	B	0	0		64	A	B	0	D
5	A	B	0	0		40	A	B	0	D		65	A	B	0	D
6	A	B	0	D		41	A	B	(C)	D						
7	A	B	0	D		42	A	B	0	(D)						
8	A	B	0	D		43	A	B	0	0						
9	A	B	0	D		44	A	В	(C.)							
20	A	B	0	D		45	A	B	0	0						
21	A	B	0	D		46	A	B	0	0						
22	A	B	0	D		47	A	B	0	0						
23	A	B	0	D		48	A	B	0	0						
24	A	B	0	D		49	A	B	0	D						
25	A	B	0	D		50	A	B	0	(D)						



Faculty of Medicine
Human Anatomy and Embryology Department

Anatomy Examination ForClinical Pharmaceutical students- class:III

Time: One Hour

Date: 25/1/2011

For each of the following multiple choice questions select the one <u>most appropriate answer:</u>

Total: (65 Marks)

- 1- Open(s)in(the left atriumpulmonary vein(s).
 - A. One.
 - B. Two
 - C. Three
 - D. Four
- 2- The coronary arteries take origin from
 - A. Ascending aorta
 - B. Arch of aorta.
 - C. Descending thoracic aorta.
 - D. Common carotid arteries.
- 3- The coronary sinus opens into
 - A. Left atrium
 - B. Right atrium
 - C. Left ventricle
 - D. Right ventricle.
- 4- The superior vena cava formed by the union of
 - A. Right internal jugular vein and right subclavian vein
 - B. Left internal jugular vein and left subclavian vein
 - C. Right and left brachiocephalic veins
 - D. Right and left subclavian veins.
- 5- The external iliac arteries carry oxygenated blood to the
 - A. Lower limbs
 - B. Upper limbs
 - C. Head and neck
 - D. Brain
- 6- The left atrioventricular opening is guarded by
 - A. Bicusped valve
 - B. Tri cusped valve
 - C.Tri cusped semilunar valve
 - D. All of the above

- 7- The abdominal agrta ends by its bifurcation at the level of the lower border of the
 - A. First lumbar vertebra
 - B. Second lumbar vertebra
 - C. Third lumbar vertebra
 - D. Fourth lumbar vertebra
- 8- The papillary muscles are found in the interior of
 - A. Right ventricle
 - B. Left ventricle
 - C. All of the above
 - D. Non·ofthe above.
- 9- The apex of the heart is formed by
 - A. Right ventricle
 - B. Left ventricle
 - C. All of the above
 - D. Non of the above
- 10- The right surface:' of the heart is formed by
 - A. Right ventricle
 - B. Left ventricle
 - C. Right atrium
 - D. Left atrium
- 11- The trachea ends by its bifutication at the level of the lower border of
 - A. First thoracic vertebra
 - B. Second thoracic vertebra
 - C. Third thoracic vertebra
 - D. Fourth thoracic vertebra
- 12- The Transverse Fissure of the lung is present in
 - A. Left lung
 - B. Right lung
 - C. Both lungs
 - D. Neither (A) nor (B).
- 13- The Following are unpaired cartilages of the larynx **Except** one
 - A. Epiglottis.
 - B. Thyroid
 - C. Arytenoids
 - D. Cricoids
- 14- The apex of the lung projects into the root of the neck to a level of
 - A. Just behind the clavicle
 - B. Half an inch above the clavicle
 - C. An inch above the clavicle
 - D. two inches above the clavicle.

- 15- The following joints enjoy with a wide range of movement **Except** one
 - A. Hip joint
 - B. Shoulder joint
 - C. Distal tibiofibular joint
 - D. Wrist joint.
- 16- The is the second envelope of the body.
 - A. Deep fascia.
 - B. Superficial fascia
 - C. Muscle layer
 - D. Cutaneous layer.
- 17- Parts of brainstem.
 - A. Pons, and medulla oblongata
 - B. Pons, medulla oblongata and cerebellum.
 - C. Mid brain, pons and cerebellum.
 - D. Mid brain, pons and medulla oblongata.
- 18- Parts of hind brain
 - A. Pons and medulla oblongata.
 - B. Pons, medulla oblongata and cerebellum.
 - C. Midbrain, pons and cerebellum
 - D. Midbrain, pons and medulla oblongata.
- 19- Parts of diencephalon.
 - A. Thalamus and hypothalamus.
 - B. Metathalamus and epithalamus
 - C. Subthalamus
 - D. All of the above.
- 20- The cerebral aqueduct (aqueduct of Sylvius) connects.
 - A. The two lateral ventricles.
 - B. The lateral ventricle and third ventricle.
 - C. The third ventricle and fourth ventricle
 - D. The fourth ventricle and subarachnoid space.
- 21- The cerebrospinal fluid reaches the subarachnoid space through.
 - A. cerebral aqueduct.
 - B. central canal
 - C. Foramen of Magendaie and foramina of Luschka;
 - D. All of the above.
- 22- The parasympathetic out flow to the heart is through.
 - A. glossopharyngeal nerve.
 - B. Vagus nerve.
 - C. Oculomotor nerve
 - D. Greater splamchnic nerve.

 23- The nerve responsible for lacrimation A. Oculomotor nerve. B. Vagus nerve C. Facial nerve D. Glossopharyngeal nerve
24- The intercostal nerves are A. Anterior rami of upper seven thoracic nerves. B. Anterior rami of upper eleven thoracic nerves C. Anterior rami of upper six thoracic nerves D. Anterior rami of all thoracic nerves.
 25- The brachial plexus is formed by union of A. Anterior rami of upper three cervical nerves B. Anterior rami of lower four cervical nerves C. Anterior rami of lower five cervical nerves D. Anterior rami of lower six cervical nerves
26- The are the primary male sex glands. A. Testes B. Seminal vesicles C. Prostatic glands D. Bulbourethral glands
27- The Are the primary female sex glands.A. Ovaries.B. Bartholin,s glandsC. Greater vestibular glandsD. All of the above.
28- The epididymis is about in length. A.6 cms. B.6 meters C.60 cms D.60 meters
29- The uterine (Fallopian tube is about
30

31-The vas(ductus) deferens is about in length.	
A. 45 cms.	
B. 45 meters	
C. 4.5 meters	
D. 4.5 cms	
32- The two testes are present in the	
A. two labia majora.	
B. Two labia minora.	
C. Scrotum	
D. Medial side of the thigh	
33-All of the fallowing. structures form the female external genitalia Except o	ne
A. Mons pubis	
B. Vagina	
C. Clitoris	
D. Vestibule.	
34-AII of the following are compound glands Except one	
A. Pancreas	
B.Testes	
C.Ovaries	
D.Pituitary	
35-All of the following are endocrine glands Except one	
A.Thyroid	
B. Adrenals	
C. Parotid	
D. Parathyroid.	
36-All of the following are exocrine glands Except one	
A. Sweat glands	
B. Sebaceous glands	
C. Parathyroid glands	
D. Submandibular glands.	
37- The pelvic part of the ureter is aboutin length.	
A.10.5 cms	
B.12.5 cms	
C.13.5 cms	
D.14.5 cms	

38-The female urethra is about in length. A. 2 cms B. 3 cms C. 4 cms D. 5 cms
39-AlI of the followings are secondary male sex orgasm Except one A. Bartholin,s glands B. Prostatic glands C. Seminal vesicles D. Bulbourethral glands.
40 is the male organ of copulation. A. Clitoris B. Penis C. Testis D. Scrotum
41 is responsible for production of sperms. A. Testis B. Penis C. Scrotum D. Epididymis.
42- The common bile duct opens in A. Stomach B. Duodenum C. Jejunum D. Ileum
43-The large intestine is aboutin length. A. 15 cms B. 15 meters C. 150 cms D. 100 cms
44- The esophagus begins at the lower border of A. Third cervical vertebra B. Sixth cervical vertebra C.Third thoracic vertebra. D.Sixth thoracic vertebra.
45 The islets of langerhans are respmsible for secretion of A. Bile B. Insulin C. Saliva D.Milk

47-AII of the followings are subtypes of fibrous joints Except one A. Syndesmosis B. Gomphosis C. Wrist D. Suture 48-AII of the followings are long bones Except one. A. Humerus B. Radius C. Ulna D. Scaphoid 49- The type of cartilage in the primary cartilaginous joint is A. Hyaline cartilage B. A fibro cartilage C. A yellow elastic cartilage D. All of the above. 50-The patella is A. An irregular bone. B. A sesamoid bone. C. A flat bone D. A short bone 51-Cranial nerve (s) responsible for movements of the eye is (are) A. The third B. The fourth C. The sixth D. The all of the above 52-Cranial nerve(s) responsible for movement of tongue is (are) A. The ninth B. The tenth C. The eleventh D. The twelfth. 53-Cranial nerve(s) responsible for hearing is (are) the A. The seventh B. The eight C. The ninth D. The tenth.	46- The inter vertebral disc is a
A. Humerus B. Radius C. Ulna D. Scaphoid 49- The type of cartilage in the primary cartilaginous joint is A. Hyaline cartilage B. A fibro cartilage C. A yellow elastic cartilage D. All of the above. 50-The patella is A. An irregular bone. B. A sesamoid bone. C. A flat bone D. A short bone 51-Cranial nerve (s) responsible for movements of the eye is (are) A. The third B. The fourth C. The sixth D. The all of the above 52-Cranial nerve(s) responsible for movement of tongue is (are) A. The ninth B. The tenth C. The eleventh D. The twelfth. 53-Cranial nerve(s) responsible for hearing is (are) the A. The seventh B. The eight C. The ninth	A. Syndesmosis B. Gomphosis C. Wrist
A. Hyaline cartilage B. A fibro cartilage C. A yellow elastic cartilage D. All of the above. 50-The patella is A. An irregular bone. B. A sesamoid bone. C. A flat bone D. A short bone 51-Cranial nerve (s) responsible for movements of the eye is (are) A. The third B. The fourth C. The sixth D. The all of the above 52-Cranial nerve(s) responsible for movement of tongue is (are) A. The ninth B. The tenth C. The eleventh D. The twelfth. 53-Cranial nerve(s) responsible for hearing is (are) the A. The seventh B. The eight C. The ninth	A. Humerus B. Radius C. Ulna
A. An irregular bone. B. A sesamoid bone. C. A flat bone D. A short bone 51-Cranial nerve (s) responsible for movements of the eye is (are) A. The third B. The fourth C. The sixth D. The all of the above 52-Cranial nerve(s) responsible for movement of tongue is (are) A. The ninth B. The tenth C. The eleventh D. The twelfth. 53-Cranial nerve(s) responsible for hearing is (are) the A. The seventh B. The eight C. The ninth	A. Hyaline cartilageB. A fibro cartilageC. A yellow elastic cartilage
A. The third B. The fourth C. The sixth D. The all of the above 52-Cranial nerve(s) responsible for movement of tongue is (are) A. The ninth B. The tenth C. The eleventh D. The twelfth. 53-Cranial nerve(s) responsible for hearing is (are) the A. The seventh B. The eight C. The ninth	A. An irregular bone.B. A sesamoid bone.C. A flat bone
A. The ninth B. The tenth C. The eleventh D. The twelfth. 53-Cranial nerve(s) responsible for hearing is (are) the A. The seventh B. The eight C. The ninth	A. The third B. The fourth C. The sixth
A. The seventh B. The eight C. The ninth	A. The ninth B. The tenth C. The eleventh
	A. The seventh B. The eight C. The ninth

- 54- Cranial nerve responsible for movements of the larynx
 - A. The seventh
 - B. The eight
 - C. The ninth
 - D. The tenth
- 55-Cranial nerve responsible for facial expressions
 - A. The seventh
 - B. The eight
 - C. The ninth
 - D. Thetenth
- 56-The pancreatic duct opens into
 - A. Stomach
 - B. Duodenum
 - C. Jejunum
 - D. Ileum
- 57-A salivary gland supplied by the ninth cranial nerve.
 - A. Parotid
 - B. Submandibular
 - C. Sublingual
 - D. Non of the above.
- 58-The followings are parts of large intestine **Except**
 - A. Rectum
 - B. Anal canal
 - C. Caecum
 - D. Ileum
- 59-The Followings are parts of small intestine **Except**
 - A. Duodenum
 - B. Jejunum
 - C. Ileum
 - D. Vermiform appendix.
- 60- The function of gall bladder is
 - A. Secretion of bile
 - B. Storage of bill
 - C. All of the above
 - D. Non of the above

- 61-The right lung is divided into
 - A. Two lobes
 - B. Three lobes
 - C. Four lobes
 - D. Five lobes
- 62- The left lung is divided into
 - A. Two lobes
 - B. Three lobes
 - C. Four lobes
 - D. Five lobes
- 63- Opens in the right atrium all of followings Except one
 - A. Pulmonary trunk
 - B. Superior vena cava
 - C. Inferior vena cava
 - D. Coronary sinus
- 64- All of the followings are subtypes of synovial joints **Except** onc
 - A. Shoulder joint
 - B. Knee joint
 - C. Ankle joint
 - D. Symphysis pubis
- 65- The true ribs are the
 - A. Upper six ribs
 - B. Upper seven ribs
 - C. Upper light ribs
 - D. Upper nine ribs

Good Luck



Assiut University Department of Faculty of Medicine Medical Physiology 20 June 2011 Final examination 2nd year Clinical Pharmacy Time allowed: 3 hours Total marks: 65 1) Blood: (8 marks) 1. **Discuss** the effect of erythropiotin on erythropiosis (3 marks) 2. **Discuss** the difference between heparin and dicoumerol. (3 marks) 3. Female patient forty years old noticed appearance of small red dots under her skin and complained from prolonged bleeding from any small wound. Investigations: platelets count was found to be low. a- This abnormality of platelets leads to condition called ----- (1 mark) b- Mention the normal range of platelets count. (1 mark) II) Cardiovascular system: (12 marks) 1- Mention 4 factors affecting venous return. (4 marks) 2- Give an account on the effect of elasticity on arterial blood pressure. (3 marks) 3- **Discuss** the cardiovascular changes in hemorrhage. (5 marks) III) Respiration: (8 marks) 1. Define the followings: (3 marks) Vital capacity-Residual volume-Inspiratory reserve volume 2. Write true for the correct and false for wrong answer: (2 marks) a- O₂ lack in arterial blood stimulates the peripheral chemoreceptors. b- The threshold for cyanosis is 5 gram of deoxygenated hemoglobin in 100 ml blood. 3. **Mention** 3 causes of hypoxic hypoxia. (3 marks) IV) Central nervous System: (5 marks) 1. **Mention** 5 functions of the hypothalamus. (5 marks) V) Endocrine glands: (10 marks) a. Select the correct answers OR when the word EXCEPT is mentioned, select the wrong choices: (4 marks) 1. Regarding secretion of growth hormone all the followings are true, EXCEPT:

a. It is normally depending on the integrity of the hypothalamus.

- b- Its secretion ceases when the adult state is reaches.
- c- li is increased following severe injury (trauma).
- d- It is increased during fasting and other status where the blood glucose level is reduced.

2. This hormone acts on intestine and causes increased calcium absorption:

- a. Calcitonin.
- b. Corticotrophin-releasing hormone factor.
- c. Thyroxin.
- d. 1,25 dihydroxycholecalciferol.

3. Parathyroid hormone:

- a. It is a cholesterol in nature
- b. It increases the urinary output of phosphate.
- c. It inhibits calcium mobilization from bone.
- d. Its secretion is regulated by the serum sodium level.

4. Calcitonin:

- a. It is produced by cells concerned mainly in the parathyroid glands.
- b. It causes a fall in blood calcium concentration.
- c. It promotes bone resorption.
- d. It increases calcium absorption from the gut.
- b. **Discuss control** of thyroid hormones secretion. (2 marks)
- c. **Discuss** functions of aldosterone hormone. (4 marks)

VI) Digestive System: (7 marks)

Discuss stimuli and functions of secretin homone (3 marks)
 Mention functions of stomach. (4 marks)

VII) Kidneys: (5 marks)

1. **Enumerate functions** of Juxtaglomerular apperatus.

- (2 marks)
- 2. **Discuss** nervous mechanism of regulation of tubular functions.

VIII) Autonomic nervous System: (10 marks)

- 1. Ahmed, 21 years old male brought to emergency room suffer from acute abdominal pain. Clinical examination revealed suspicious of appendicitis. The doctor gave him saline contains **atropine**. (8 marks)
- a. **Name** the part of the autonomic nervous system responsible for abdominal pain in the above case?
- b. From your pathophysiological knowledge, **Explain** why did the doctor gave Ahmed atropine?
- c. Name the types of receptors of that part of autonomic nervous system and their location.
- 2. Enumerates action of occulomotor nerve. (2 marks)

GOOD LUCK

PROFESSOR MANERVA KAMAL & PROFESSOR ENAS A HAMED

تعليمات الاختبار

- يتكون الاختبار من اربعة أسئلة
- يتكون الاختبار من ثلاث ورقات
- الاسئلة متعددة الاجابات عليك بوضع دائرة على الاجابة الصحيحة
- فكر جيدا قبل ان تجيب على الأسئلة ، ولا تجعل قلمك يسبق فكرك
 - الدرجة الكلية للاختبار (خمسون درجة)

Second Level Clin. Pharm. Students Time allowed 2 hrs. May 25/2008 Pharmacognosy II Exam. Assiut University

Faculty of pharmacy
Pharmacognosy Dept.

All questions should be answered.

I. Encirle The correct answer:

(20x1) = 20 M

1) Ergot alkaloids could be tested by:

a- Borntrager's test

b- Vitalis test

c- FeCl₃

d- Non of the above

2) Powdered Liquorice is characterized by:

a- Crystal layer

b- Crystal sheath

c- Cross layer

d- Sclereids

3) Mucilage of linseed could be tested with:

a- Methylene blue

b- Rhuthenium red

c- Sudan III

d- 66% H₂SO₄

4) Powdered Ginger rhizome is characterized by:

a- Clusters of Ca=Ox

b- Fusiform sclerieds

c- Lignified pitted vess

d- Septated fibers

5) Colchicum rhizome is used in treatment of:

a- Hypertension

b- In Hodgkin's disease

c- In parkinsonism

d- In gout

6) The pungency of capsicine is destroyed by:

a- 2% Pot. Hydroxide

b- Ferric chloride

c- pot. Permenganate

d- Nitric acid

7) Valerian rhizome belongs to family:

a- Rubiaceae

b- Liliaceae

c- Compositae

d- Non of the above

8) Ammi majus is used for treatment of:

a- Bronchial asthma attack

b- Leucodermia

c- Renal spasm

c- Hypertension

9) Agar agar belongs to:

a- Dried latex b- Dried juice c- Oleo-resins d- Non of the above 10) Ipecacunha belongs to family: a- Leguminosae b- Apocynaeea c- Compositae d- Non of the above 11) Ruta herh belongs to family: a- Solanaceae b- Apocynaeea c- Non of the above c- Leguminosae 12) Vittae are: a- Schizogenous ducts b- Lysogenous ducts d- Non of the above c- Schizolysogenous ducts 13) Abietic acid is a component of: b- Gum acacia a- Myrrh c- Colophony d- Benzoin 14) Linalol is the major component of the oil of: a-Anise b- Coriander c- Cumin d- Caraway 15) Aloes are useful in cosmotics due to: a- Anthraquinones b- Alkaloids c- Mucopolysacchariedes d- Resins 16) Powdered Capsicum is characterized by: a- Lignified seed coat b- Idioplasts c- Typical paraquetry structure d- Cluster of Ca-ox 17) Cannabis could be tasted by: a- Mineral acid b- Beam's test c- Van Urk test d- Borntrager's test 18- The root that used mainly as hepatic stimulant: a- Rauwolfia b- Gensing c- Dandelion d- Gentian 19) Podophyllum has antitumor due to: a- Alkaloids b- Volatile substances

d- Non of the above

c- Flavonoids

20) Steroidal saponins are mainly present in:

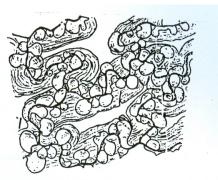
a-Liquorice	b- Sarsaparilla	
c- Gensing	d- Dandelion	
II) Put $(\sqrt{\ })$ for the correct state	ement and (X) for the false one: (20x0.5	5=10M)
1) Linseed has demulcent a	action due to fixed oils	()
2) Powdered Mentha herb i	is characterized microscopically be crys	stal layer
	()
3) Reserpine alkaloid is use	eful in treatment of cardiac arrhythmia	()
4)Opium latex is obtained l	by incision of the fully grown and ripe	fruits ()
5) Gentian root is mainly u	sed as tonic and adaptogenic	()
6) Cod liver oil is a rich sou	urce of vitamin B	()
7) The chief constituent of	Ammi majus is furanocoumarin	()
8) Carrageen belongs to far	mily Gigartinaceae	()
9) Legume is a simple dry	indehiscent fruit	()
10) Vincristine alkaloid is u	useful in treatment of diabetic patient	()
11) Powdered liquorice giv	tes an orange red colour with $66\% H_2SG$	O ₄ ()
12) Milkthistle herb contain	ns flavonolignans	()
13) The cake left after expr	ression of the oil of Castor seed is used	as animal
food	()
14) Heroine is a naturally of	occurring alkaloid	()
15) Strophanthus seeds belo	ongs to family Apocynaceae	()
16) Benzoin is obtained by	incision of the stems of Commifora mo	olmol ()
17) The pungent principle i	in Capsicum is accumulated in it's endo	ocarp ()
18) Gelatin gives positive I	Molish's test	()
19) Anethol is th major cor	mponent of oil of Anise and Cumin	()
20) Cymbopogon proximus	s is useful in renal disorders	()
III) Write shortly on each of the	ne following: $(6 \times 2 = 12 \text{ M})$	

- 1) Two kinds of steles
- 2) Active constituents of Nux vomica
- 3) Draw four characteristic elements in powdered Thyme
- 4) Medicinal uses of Echinnaceae root
- 5) The kernel
- 6) Medicinal uses of Ergot

IV- Identify the following fragments, give the biological origin of the drug bearing each. $(4 \times 2 = 8 \text{ M})$



Name of the fragment: Biological origin



Name of the fragment : Biological origin



Name of the fragment: Biological origin



Name of the fragment : Biological origin

Good Luck

Assiut University Faculty of Medicine



Department of Medical Physiology

Final Examination "Repeated" In

"Clinical Physiology"

Third Semester	13 June 2008			
Clinical Pharmacy Students	Time allowed: 3 hours			
Discuss briefly:				
1- Functions of plasma proteins	(5 marks)			
2- Functions of proximal convoluted tubule	(6 marks)			
3- Functions of testosterone hormone	(6 marks)			
4- Functions of aldosterone hormone	(6 marks)			
5- Functions of bile salts	(6 marks)			
6- Chose two factors affecting the cardiac output and explain their effects(6 marks)				
7- Physiological variations on the heart rate				
8- Functions of the sympathetic nervous system on head and	l neck (6 marks)			
9- The differences between the extra and intra cellular fluid.	(6 marks)			
10- The sites of cholinergic receptors	(6 marks)			
11- Definition and causes of hypoxic hypoxia	(6 marks)			

Good Luck

Prof. Mahmoud R. Fadeil & Prof. Salwa M Seleem

Assiut University

Faculty of Pharmacy

(المطروح)

Clinical Pharmacy Pharm. Organic Chem.-2

June, 5, 2008

Dept. Pharm. Organic Chem. Tim allowed 2 h

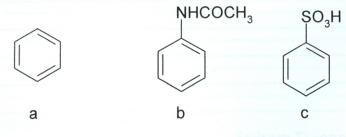
الامتحان مكون من ٥ صفحات

Illustrate your answers with chemical equations whenever possible

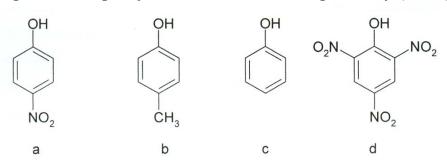
Part 1 (25 marks)

Answer the following questions:

1) Arrange the following compounds in an order of increasing the affinity to electrophilic substitution reactions, explain why this arrangement: (2 mark)



- 2) Enumerate non-benzenoid aromatic compounds: (1 mark)
- a)
- b)
- c)
- 3) Arrange the following compounds in an order of increasing the acidity: (1 mark)



- 4) Which of the following substituents are ortho, pare director and ring deactivating? (1 mark)
- a) OH
- b) Cl
- c) CH₃
- d) SO₃H
- e)NHCOCH₃

	ÇH₂CH₂CH₃	Ï	ŅH
		+	
а	b	С	d

equation only the mechanism of this reaction, (4 marks)

6) Compelete the following equations: (7 marks)

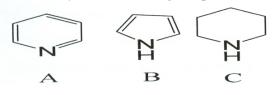
7) How could you carry out the following conversions? (8 marks) a) Aniline to cyanobezene		
b) Benzoic acid to Benzamide		
c) Benzene to aniline		
d) Benzene to <i>m</i> -bromonitrobenzene		

I-Give <u>only</u> the structures of the product (s) that would result from the following reactions or complete the equations: (15 points)

- 1) S Nitration ?
- 2) NaOH Ph-CHO
- 3) H₃C CH₃ + P₂S₅ ------
- 4) Nitration +
- 5) + Reimer-Tiemann _____
- 6 NaNH₂ / NH₃
- 7) Br₂ / heat
- 8) + Maleic anhydride ------
- 9) Diphenylmethane Br₂ hydrolysis
- 10) + CH₃COCI/ AICI₃ + +

II-	Encircle	the	correct answer:	(4.5	points)

- 1) The decreased order of reactivity of benzene, naphthalene, anthracene and phenanthrene is as follows: (most reactive first)
 - a) benzene > naphthalene > phenanthrene > anthracene.
 - b) phenanthrene > anthracene > naphthalene > benzene.
 - c) anthracene > phenanthrene > naphthalene > benzene.
- 2) The decreased order of basicity of the following compounds is (most basic first):



a) B > C > A

- b) A > B > C
- c) C > A > B
- 3) The decreased order of reactivity towards Electrophilic Substitution of benzene, pyridine, quinoline and isoquinoline is as follows:
 - a) benzene > pyridine > quinoline > isoquinoline.
 - b) benzene > quinoline ~ isoquinoline > pyridine.
 - c) quinoline ~ isoquinoline > benzene > pyridine.

lll- Complete the following: 1)Bischler-Napieralski reaction is used to prepare			
through the following equation:	(1.5 points)		
2) Indicate the preferred positions for Elect the following:a) Furan at	•		
3) Haworth systhesis is used to prepare naple equations:	(2 points)		

مع أطيب الامنيات بالتوفيق والنجاح القائمون بالتدريس: د/سامية جلال أحمد و د./ علاء عرفات خليفة الامتحان النظرى مباشرة

Assiut University, Faculty of Pharmacy, Dept Pharm Org Chemistry. Pharmaceutical Organic Chemistry 2.

Final semester exam. Tim allowed (2 hours) For Clinical Pharmacy Program 1st level June 19th, 2008

(باللغه العربيه) Name

Section A (25 Points, 1 hour)

I- Complete the following equations:

1.
$$CI-CH_2CH_2-OH$$

2. H_3CH_2C — $C \equiv CH + (BH_3)_2$

THF

- H_2O

3. H_3CH_2C — $C \equiv N$

1) $DIBAL-H$, hexane, -78 C

2) H_2O

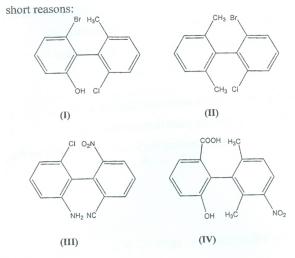
4. H_3C
 $H_$

II- How could you perform the following conversions:

(1) Acetone into 2-methyl-2-pentene

Section B (25 Points, 1 hour) Part I

1) Assign the optically active compounds in the following structures giving very short reasons:



2) Allocate the symbols (E) or (Z) to the following:

CONH₂

$$C_2H_5$$

$$H_3C$$

$$H_3C$$

$$H_3C$$

$$CH_2CHO$$

$$CH_2CHO$$

$$CH_2CN$$

$$(III)$$

$$(IV)$$

- 3) Complete the following or mark by ($\sqrt{}$) or (X):
 - a) SN² reactions proceed by of configuration.
 - b) SNi reactions proceed by of configuration.
 - c) Maleic acid has a lower dipole moment than the fumaric one ().
- d) The chair form of cyclohexane is more stable than the boat form because
- e) Maleic acid is more soluble in water than fumaric acid ()
 - f) Maleic acid has higher melting point than fumaric acid ().
- 4) Complete the following equations drawing the Fischer projections for the products:
 - a) CH₃CHO + HCN ----→....
 - b) CH₂(OH)CH(OH)CHO + HCN ----→
 - c) Cis-2-butene + Br₂ ---→
 - d) H_3C $CH_2 + HCl$
 - (i) Which of the above reactions (4a-4d) is regioselective
 - (ii) Which of the above reactions (4a-4d) is stereospecific
 - (iii) Which of the above reactions (4a-4d) is stereoselective
 - (iv) What are the stereochemical nature of products of reactions 4a and 4c

5) The observed angle of rotation of plane polarized light of a sample of D-
glucose in water was determined at 25°C using a polarimeter tube of 150 mm
path length was found to be 22.5°. Calculate the concentration of this sample,
if its $\left[\alpha\right]_{D}^{25}$ is 75°

6- Suggest any method for synthesis of any amino acid.

Part II

I- Complete the following statements or allocate (√) or (X) whenever required: 1) Dilute HNO₃ can be used to differentiate D-glucose and D-galactose (). 2) Bromine water can be used to differentiate D-glucose and D-fructose (). 3) D-glucose and D-mannose can be differentiated by osazone test ().

4) Periodic acid can be used to differentiate D-mannose and D-fructose ().

5) β -D-glucose oxidizes at a faster rate with bromine water than the α -anomer ().

6) β -D-glucose is more stable than the α -anomer because

o) p B graces is more small than the walledner ecourse

7) Maltose is a reducing sugar ().

8)Acid hydrolysis of maltose gives

9) Cellobiose is formed of

10) Sucrose is a reducing sugar ().

II- What are the products of periodate oxidation of the following compounds:

ASSIUT UNIVERSITY	CLIN. PHARM.		
FACULTY OF PHARMACY	PERIODICAL EXAM		
PHARM. ANAL. CHEM. DEPT.	NOVEMBER, 10, 2012		
PHARM. ANAL. CHEM2	TIME ALLOWED: 1 HOUR		
رقم الجلوس:	إسم الطالب:		
Complete the Following sentences:	(2.5 Marks)		
1- Anions that form precipitates with certain metal ions may be analyzed with			
EDTA by titration			
2- Complex ions are formed through the formation ofbond			
3- The stability of metal-EDYA complexes may be altered with			
and	•		
4- The suitable antidote for the treatment of poisoning with arsenicals is			
5- The metal involoved in vitamin B ₁₂ complex is			
12			



ASSIUT UNIVERSITY FACULTY OF PHARMACY PHARM. ANAL. CHEM. DEPT.

ANALYTICAL CHEMISTRY 2 (PC 306) SEMESTER (3) 2012/2013 PRACTICAL EXAM

1-12- 2012 Time Allowed: 1 hour

رقم الطالب:	إسم الطالب:
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Sample No.	A	В

1- Determination of copper sulphate concentration in sample (A):-,

- 1- Transfer 10 ml of sample (A) into a glass-stoppered conical flask.
- 2- Add 10 ml of 10% potassium iodide solution.
- 3- Add 5 ml distilled water.
- 4- Allow the flask to stand for five minutes.
- 5- Titrate with 0.05 N sodium thiosulphate until pale yellow, near the end point add 10 ml of 5% potassium thiocyanate and shake well.
- 6- Add 1 ml starch solution and continue the titration with shaking after each addition.

Exp. No.	Volume consumed	Mean
1-		
2-		
3-		

Each 1	ml	0.05	N sodium	thiosu	ılphate	$\equiv 0.0122$	25 g	CuSO	₁ .5H ₂ O

% CuSO₄.5H₂O=

II- Determination of zinc sulphate concentration in sample (B):

- 1- Transfer 10 ml of sample (B) into conical flask.
- 2- Add 5 ml of ammonia buffer.
- 3- Add few specks of Erio-T indicator.
- 4- Titrate with 0.05 M EDTA.

Exp. No.	Volume consumed	Mean
1-		
2-		
3-		

Each 1 ml 0.05 M EDTA $\equiv 0/01438g~ZnSO_4.7H_2O$

	%	ZnSO ₄	$7H_2O =$	
--	---	-------------------	-----------	--



Assiut University
Faculty of Pharmacy
Dept. of Pharm. Org. Chemistry
Pharm. Org. Chemistry-3

Clinical Pharmacy program final Semester exam December, 26- 2012

Time allowed 2h

Illustrate your answers with chemical equationswhenever possible

الاجابة في نفس الورقة مواعيد الشفهي: بعد الامتحان النظري مباشرة لجميع الطلاب

This booklet is composed of 6 pages

Answers should be in the specified places

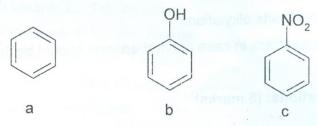
المشاركون في التدريس

Prof. Dr. Abdel Hamid Kafafy Dr. Alaa Arafat K. M. Hayallah

Part 1 (25 marks)	
Answer the following questions	
•	e of the following compounds: (2 marks)
a) 4-Iodo-2-methylphenol	b) 3-Bromo-4-hydroxy benzoic acid
c) 1-Bromo-3-chlorobenzene	d) Cycloheptrienyl cation
2) Enumerate non-benzenoid a	
a)	<u>-</u> , , , ,
b)	
c)	
3) Which of the following subst	tituents are ortho, para director and ring
deactivating? (1 mark)	
a) NH ₂ b) Cl c)	CH ₃ d) SO ₃ H e) NHCOCH ₃
4) Assign which one of the follo	owing compounds is aromatic: (1 mark)
	OH
	Н
	Rama (in) like was
a b	c d
u .	w in an annual of FaDra allows by a susting
-	r ₂ in presence of FeBr₃ , show by equation
only the mechanism of this react	ion. (3 marks)

5) Arrange the following compounds in an order of increasing the acidity: (2 marks) explain reasons of this arrangement.

6) Arrange the following compounds in and order of increasing the affinity to electrophilic substitution reactions, <u>explain why this arrangement</u>: (2 marks)



7) How could you carry out the following conversions? (4 marks)
a) Conversion of benzene to pure n-propyl-benzene.

b) Conversion m-methyl aniline to m-chloro-toulene.

8) Assign which of the following sentences is true or false: (4 marks)

a. Benzene is readily oxidized by cold KMNO₄.

b. Azulene does not behave chemically as an aromatic compound.

c. In the Friedel-Crafts acylation reaction we must use exact same equivalent of lewis acid to act as catalyst.

d. The arenium ion formed by ortho and para attack in case of amino-benzene should be the most stable one.

e. p-Nitro-aniline is more basic than aniline itself.

f. Cyanobenzene could be prepared by reaction of benzene diazonium salt with CuCN.

g. Aniline undergoes direct Friedel-Crafts alkylation. ()

g. The arenium ion formed by *meta* attack in case of nitrobenzene should be the most stable one.

9) Complete the following equations: (5 marks)

a)
$$NO_2$$
 reduction

b) H_2SO_4 $FeBr_3$
 Br_2

c) NH_2 $CuBr$
 $NANO_2$, HCI

d) NH_2 O
 H
 ONA
 ONA

Section B (60 min, 25 points)

I- Underline the correct answer: 1- The IUPAC chemical nomenclature of pyrazine is: a) 1,4-diazine b) 1,2-diazine c) 1,3-diazine 2- Oxidation of β -picoline yield: a) Picolinic acid b) Nicotinic acid c) Isonicotinic acid 3- The preferred position(s) for electrophilic aromatic substitution reaction of pyridine are: a) α and γ positions b) only α position c) B position 4- Pyridones are considered as electron source (as phenoxide anion of phenol) so the ring of pyridine becomes a) Activated towards E_{Ar} Sub. Reaction b)Non activated towards E_{Ar} Sub. Reaction'· c)Activated towards NU_{Ar} Sub. Reaction 5- Oxidation of quinoline using KMnO₄/ H⁺ produce: a) Pyridine 2,3-dicarboxylic acid b) Pyridine 3,4-dicarboxylic acid c) Picolinic acid 6- The high reactivity of pyrrole and furan towards electrophilic aromatic substitution reaction resemble: a) Nitrobenzene b) Phenol c) Both a & b 7- Pyrrole could be nitrated using: a) Conc. HNO₃/ H₂SO₄ b) Non acidic nitrating agent as...... c) Conc. H₂SO₄ 8- The non acidic sulphonating agent used for sulphonation of furan is: b) Fuming H₂SO₄ c) SO₃/ pyridine a) Conc. H₂SO₄ 9- Pyridine-N-oxide is a) More reactive towards E_{Ar} Sub. Reaction b) Less reactive towards E_{Ar} Sub. Reaction c) Equal reactivity to pyridine 10- The reactivity of pyridine-N-oxide is attributed to a) Diverse +M, -M effect only b) +M effect c) –M effect

See the next page

11- T	he IUP	AC ch	emical	nomen	clature	ofmor	pholin	e is:			
a)	Perhyd	rooxaz	ine	b) :	Perhyd	roazin	e c	rihy)	ydrooxa	azine,	
12- T	he IUP	AC ch	emical	nomen	clature	of oxo	ohllle is	s:			
a)	Tribyd	ropyric	line	b) '	Tetrahy	ydrofui	an c	e) Dihy	drofun	tn	
13- T	he IUP	AC ch	emical	nomen	clature	of ind	ole is:				
a)	Beriio(a)pyrro	ole	b) :	Benzo((c)pyrr	ole o	e) Benz	co(b)py	rrole	
14- Q	uinolir	ne follo	w Huc	kel's ru	le, hav	ing 4n-	+2 π el	ectrons	s which	equal	to:
a)	4 π ele	ctrons		b)	6 π ele	ctrons	C	2) 10 π	electro	ns	
15- T	here is	high si	milarit	y betw	een the	chemi	ical bel	navior	of pyrio	dine an	d:
a)	Nitron	aphthal	ene	b) :	Nitrobe	enzene	C	e) Amiı	nobenz	ene	
16- O	xidatic	n of pl	nenyl p	yridine	using	KMn(O_4/OH	produ	ce:		
a)	Benzoi	c acid		b) :	Nicotir	nic acid	l c	e) Isoni	cotinic	acid	
17- 2	-Methy	lpyridi	ne reac	ts with	benza	ldehyd	e to aff	ord:			
a)	3-Styry	lpyrid	ine	b) :	2-Styry	lpyrid	ine c	e) No re	eaction		
18-4	-Amino	pyridi	ne coul	d be us	sed as a	a precu	rsor fo	r synth	esis of:		
a)	3-Subst	ituted p	yridine	b) 2	2-Subst	ituted p	yridine	c) 4	-Substit	uted py	ridine
19- T	he rem	oval of	N-oxi	de oxy	gen of	pyridin	e N-ox	ide car	ı be ov	ercome	by:
a)	Zn/ HC	C1		b) :	PC1 ₅		(e) PC1 ₃	3		
20-2	,5 -Din	nethylp	yrrole 1	underg	oes Re	imer T	iemanr	reacti	on and	yields:	
a).	An alde	hyde to	ogethei	with r	ing exp	pansior	n produ	ct.			
b).	An alde	ehyde o	only wi	thout a	ny ring	g expan	sion pi	oduct.			
c)	The rin	g expai	nsion p	toduct	only w	ithout	any ald	lehyde.			
21- T	he pref	erred p	osition	(s) for	EArS 1	reaction	ns of in	idole o	ccurs a	t:	
a)	2-posit	ion		b) :	3- posi	tion	(e) 5- po	sition,		
22- E	ArS rea	action o	of pyrii	nidine	(HNO	$_3/\mathrm{H}_2\mathrm{SC}$	o ₄ produ	uces:			
a)	3-nitro	pyrimi	dine	b) :	2-nitro	pyrimi	dine o	e) no re	action		
23- E	ArS rea	action o	of urac	il occu	rs at:						
b) :	5-Positio	on of pyr	rimidine	b) 6	5-Positio	n of pyr	imidine	c) 2-Po	sition of	pyrimid	ine
	he IUP			ture of	quinol	line is:					
a) ben	zo(a) p	yridine		b) 1	benzo(b) pyrid	ine		c) benz	o(c) pyı	ridine
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
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					Ģ	9					

25- Explain the EArS reaction of questions 22 and 23.





اختبار الفصل الدراسى الأول للعام الجامعى ٢٠١٣/٢٠١٢ الفصل الثالث – برنامج الصيدلة الإكلينيكية

الزمن: ساعتان المادة: علم النفس

تعليمات الاختبار:

- → أكمل العبارات بأدق ماتراه مناسبا من البدائل الثلاثة (أ-ب-ج) في ضوء دراستك لمقرر علم النفس.
 - → اكتب اجابتك في نموذج الاجابة المعد ، ولن يلتفت الى أى اجابة داخل صفحات الأسئلة.
 - → درجات التساؤلات متساوية، فكل تساؤل له درجتان؛ لتصبح الدرجة العظمى للاختبار ٨٠ درجة.
 - \rightarrow تأكد من أن صفحات الاختبار ست (٦) صفحات.

نموذج الإجابة بعد الذي تم اختيارك اياه في المكان المناسب له طبقا لرقم كل تساؤل.

	بدائل الاختبار		م		بدائل الاختبار		م
ج	ب	Í	·	<u>ج</u>	ب	Í	·
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			77				۲
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			77				٦
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			۲۸				٨
			44				٩
			٣.				١.
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			٣٢				١٢
			٣٣				١٣
			٣ ٤				١٤
			٣٥				10
			77				١٦
			٣٧				١٧
			٣٨				۱۸
			٣٩				۱۹
			٤.				۲.

4	العصبارات		البداا	لل
		i	ń	3
	برزفي العصر الحديث علم النفس الإيجابي ؛ نتيجة :			
	أ- دراسة الاضطرابات النفسية وعلاجها .	0		
	ب- التدخلات العلاجية للأمراض الذهائية .		0	
	ج - تناول المتغيرات الإيجابية في الشخصية الإنسانية .			0
,	يقصد بسلسلة التقيرات الطارئة على الفرد في الجانب التكويني:		ALAIG IS	
	أ- النمو.	0		
	ب-الارتقاء.		0	
	ج-النضج.			0
-	يحقق الفرد السواء النفسي طبقاً للمذهب الإنساني (نظرية الذات) إذا كان قادراً على :			
	أ- الانسجام في المنطقة المفتوحة .	0	0	
	ب- التدريب على التفريخ الأنفعالي والتداعي الحر.		0	
	ج - التغلب على السلوك غير المرغوب فيه والارتقاء بالسلوكيات الإيجابية .			0
	يطلق على التغير شبه الدائم في السلوك نتيجة الخبرة والممارسة والتدريب:			
	أ- التربية .	0		
	ب- التعليم.		0	0
	ج-التعلم.			
_	يظهر الضمير والمثل كاحد مكونات الشخصية الإنسانية في نظرية التحليل النفسي في :	0		
	أ- الآتا الأعلى Super Ego . ب- الآتا Ego .	0	0	
	چ-الهو ID.			0
-	يتجلى الفارق بين مصطلحي التعليم والتعلم في :			
-	أ- القصدية والرسمية ،	0		
	ب- المنظومة والتكامل .		0	
	ج - الاستمرارية .			0
1	ساهمت معادلة الفروق الرباعية على إثبات وجود القلرة العامة للفرد على يد العالم :		-	
T	أ- سبيرمان Spearman أ-	0	Martin pur binner, republican	***************************************
	ب- بينه .		0	
	ج—هوارد جاردنر .			0
	يتحدد اختيار الفرد لأحد أساليب التوافق النفسي المباشر وغير المباشر بــ :			***************************************
T	أ- نمط الاضطرابات النفسية التي يعاني منها الفّرد .	0		
	ب- نقاط القوة والضعف للفرد .		0	
	ج-الصلابة النفسية للفرد .			0

A	العسبارات	البد	ائل
		ų	
-9	إذا تماثل العمر العقلي والعمر الزمني تصبح درجة ذكاء الفرد :		
	. 100-1		
	. 11· ···	0	
	. 9)
-1.	يمثل الاتجاه الحديث في رؤية النكاء الإنساني من حيث التعدية عالم النفس:		
	أ- وكسلر .		Al - W
	ب- هوارد جاردنر .	0	
	ج بينه .		0
-11	يقاس السواء النفسي تلفرد بقدرته على تحمل المواقف الضاغطة من خلال:	and the same of	
	أ- الشدة والعدة .		Ale I
	ب- السعة والمدى .	0	
	ج عتبة الإحباط .		0
-14	يمكن للفرد تحقيق التوافق النفسي والاجتماعي من خلال:	Olean - proposition re-	
	أ - التفاعل بين مكونات عناصر البيئتين الداخلية والخارجية .		
	ب- تعلم طريقة حل المشكلات بخطوات المنهج العلمي .	0	
	ج-إتباع خطوات التفكير في مجالات الحياة المختلفة .		0
-14	يتوقَّف التواهق النفسي والاجتماعي لدى الفرد طبقاً لنظرية التحليل النفسي على قوة :		
	أ- الأنا الأعلى Super Ego .		
	יָב- וֹצְיֹי Ego.	0	
	ج-الهو ID.		0
-18	ثم يقتصر تأثير العوامل الوراثية على الجانب الجسدي ، بل اتسع ليشمل :		Decision Service Servi
	أ- الجوانب المرفية والاجتماعية .		***************************************
1	ب- الجوانب الانفعالية والروحية .	0	
	ج -جميع جوانب الشخصية الإنسانية .		0
-10	من أبرز أساليب التوافق المباشرة الإيجابية :		
	أ- زيادة الجهد .		
	ب- الثقة بالنفس .	0	
	ج — الإفصاح عن الذات .		0
-1.	لتحقيق الانسجام وانتاقلم مع البيئة المحيطة بالفرد ، يستوجب :		
	أ- المتكامل بين وظائف النصفيين الكرويين .		
	ب- سيادة النصف الأيمن للدماغ .	0	
	ج-سيادة النصف الأيسر للدماغ.		

كم أكمل العبارات الآتية بادق ما تراه مناسباً من البدائل الثلاثة (أ-ب-ج) في ضوء دراستك لمقرر علم النفس.

A	العبارات		اليداد	ل
		Ì	نيا	3
-14	تظهر أحد مكونات الساوك الإبداعي لذوي النكاء اللغوي في :			
	أ-الطلاقة اللفظية .	0		
	ب-المرونة .		0	
	ج-الأصالة.			0
-1/	تظهر حيلة التكوين العكسي كاحد أساليب التوافق الاجتماعي غير المباشرة في ظاهرة :			-
	أ- على طرف اللسان TOT .	0		
	ب-النسيان .		0	
	ج-التصور والتخيل وسرعة التذكر .			0
-1	يستطيع الفرد التعبير عن مكنونات النفس الانفعالية واللغوية عن طريق فنية :			
	أ – المقعد الخالي .	0		
	ب-التداعي الحر.		0	
	ج – القصة الرمزية .		Contract of the contract of th	0
-	يتجلى الفارق بين نوعي التفكير الاستدلالي والاستنباطي في :			
Spalle-	أ- إجراءات عملية التفكير.	0		-
	ب المعلومات مادة التفكير .		0	
	ج – محتوى التفكير .			0
-	يطلق على من يمتلك القدرة على إيجاد صوراً عقلية ويستخدم خرائط ذهنية ذوى الذكاء :			
1	أ- البصري المكاني .	0		-
	ب- النطقي الرياضي .		0	
-	ج <i>- الجسمي الحركي</i> .			0
-	يظهر أعلى أداء يستطيع الفرد الوصول إليه في :			-
T	أ- السمات الشخصية للفرد .	0		
	ب- الأداء الميز .		0	
	ج-الأداء الأقصى .			0
1-	يتم تحويل الرموز والأشكال إلى معاني في العقل البشري عن طريق :			
-	أ- الذاكرة .	0		-
	ب- معالجة المعلومات .		0	
	ب- الإدراك .			0
	يطلق على التالف بين الشخص والمحيطين به :			-
1	ا- التوافق الاجتماعي .	0		
	ب- التوافق الشخصي .		0	
	ج - التوافق المجتمعي .			0

			البدائ	J
Α	العسيارات	î	ب	3
-40	من أساليب التوافق غير المباشرة :			
	أ- الحيل الدفاعية (ميكانيزمات الدفاع)	0		
	ب- بذل الجهد للوصول إلى الهدف.		0	
	ج - تغيير الهدف بما يتناسب مع قدرات الفرد .	5 BED. L.		0
-47	يمثُّل الجانب الإدراكي للحياة النفسية للفرد في أحد أبنية الشخصية ، وهو :			
	Ego u'u' -i	0		
	ا ب- الهو ID.		\circ	
	. Super Ego ج-الأنا الأعلى			O
-41	تظهر الأمراض السيكوسوماتية لدى الأفراد ؛ نتيجة :			
	أ - اضطرابات وأمراض الجلد وضغط الدم.	0		
	ب- اضطرابات وآلام المعدة .		0	
	ج - استجابة الجسد للضغوط النفسية .			0
-4/	من أهم العوامل التي تعيق التوافق النفسي الشخصي للأفراد:			
	أ- اخطاء التفكير.	0		
	ب- التفاعل بين البيئتين الداخلية والخارجية .		0	
	ج — محتوى الموضوعات الدراسية بالمناهج .			0
-4	يتجلى الفارق بين الجانبين التطبيقي والنظري للصحة النفسية في :			
	أ- المعرفة والعالجة ،	0		
	ب- التكامل.		0	
	ج الاستمرارية .			0
-4	أهم ما يميز حيل الدفاع كأحد الأساليب غير الباشرة في تحقيق التوافق النفسي للفرد أنها:			
	ا- تشوه الواقع وتزييفه وتنكره .	0		
	ب- التخيل والتصور		0	
	ج – اللاشعور			0
- - Y	يظهر سوء التواقق الاجتماعي لدى ذوي الأمراض السيكوسوماتية ؛ نتيجة :			
Li productiva de la constantiva della constantiv	أ - شعور ذوي الاضطرابات السيكوسوماتية بالإنهاك والإعياء .	0		
	ب- شعور ذوي الاضطرابات السيكوسوماتية بالدونية والنقص .		0	
	ج - شعور ذوي الاضطرابات السيكوسوماتية بالوحدة والعزلة عن الأخرين.			0
-4	تعرف عملية استبعاد الفرد لا شعورياً لكل ما يؤذيه دمن الجانب الشعوري إلى اللاشعور بـ :			
	أ- الكبت.	0		
	ب- الكبح		0	
	جاننكوص			

كم أكمل العبارات الآتية بادق ما تراه مناسبا من البدائل الثلاثة (i − ب − ج) في ضوء دراستك لمقرر علم النفس .

А	العـــــارات .	اليدائ	ل
- 1		m	3
-71	تظهر الاضطرابات النفسية طبقا لنظرية الاتجاه العقلاني الانفعالي لـ Alport Ellis نتيجة :		
	أ- المعتقدات والأفكار السوية والصحيحة .		
	ب- المعتقدات الخاطنة والأفكار اللاعقلانية .	0	
	ج - الأفكار القائمة على الانفعال .		0
-4	تتباين عناصر أنواع التوافق ، وتتنوع وجهات النظر حولها ، إلا أنها تبدو في صورة :		
	أ- اتساقية .	42	
	ب- تكاملية .	0	
	ج تفاعلية .		0
-4	من أهم أخطاء التفكير التي تظهر في اعتماد الفرد على الحيل اللفاعية :		
	ا- الخلط بين الرأي والحقيقية .		
	ب- التفكير المحر دون المقيد .		
	ج التفكير المشعب دون الأحادي		0
-4			
-1	للتقلب على ظهور أعراض الأمراض السيكوسوماتية يلزم القرد :		
	أ- إتباع أحد إستراتيجيات مواجهة الضغوط الفعالة .		
	ب- تعام طريقة حل المشكلات بخطوات المنهج العلمي .	0	
	ج - إتباع خطوات التفكير في مجالات الحياة المختلفة .		0
-1	تتعدد أشكال التوافق ، إلا أن أقوى وأفضل أنواع التوافق ، هو :		
	أ- التوافق الشخصي .		
	ب- التوافق الاجتماعي .	0	
	ج - التوافق المجتمعي .		0
	يلجا الأسوياء وغير الأسوياء للحيل الدفاعية ، ولكنهم يختلفون في :		
	أ- أنماط الحيل التي يلجاون إليها .	-	
	ب- الأسلوب الذي يظهرون به الحيل الدفاعية .	0	
	ج درجة الاعتماد عليها في المواقف الحياتية .		0
2	يتفق الكثير من علماء النفس على أنه من الضروري في معالجة الاضطرابات السيكوسوماتية نفسيا :		-
	أ- التغلب على السلوك غير المرغوب فيه والارتقاء بالسلوكيات الإيجابية.		
1	ب- التدريب على التفريخ الانفعالي والتداعي الحر .	0	
	ج العلاج العقاقير أولاً .		
	يشير الارتباط القوي بين أساليب أداء بالسمة التي تتجمع ويطلق عليها :		
	Performance - Ikkle		
	ب-القدرة Ability .	0	
	ج ⊣الشخصية Personality .		
1			

لجنة الممتحنين

أ.د. صلاح الدين حسين الشريف

د. مصطفى عبد المحسن عبد التواب الحديبي

ASSIUT UNIVERSITY FACULTY OF PHARMACY PHARM. ANAL. CHEM. DEPT. PHARM. ANAL. CHEM.-2

Q No.

CLIN. PHARM. FINAL EXAM January, 3, 2013
TIME ALLOWED: TWO HOURS

Answer											
1- Complexometry and Statistics: (25 Marks) A) Chose the correct answer and write the indicative letter only in the								<u>e</u>			
above tal									(11.0 M		
1- Alumir		hlorid	e can	be dete	rmined	l by:				,	
(a) indirec				direct ti) back 1	titration	(d)	none of	these
2-Trietha	nolam	nine m	acke 1	these in	ns exce	nt•					
(a) AL^3+	nom			Fe ³ +	по сасс		e) Mn ²⁺			(d) Mg	2+
3- Anions EDTA		form p	recip	itates v	vith cer	tain me	etal ion	s may l	oe analy	yzed wi	th
(a) indirec	•	ion	(b)	direct ti	tration	(c) ba	ick titra	tion	(d) dis	splacem	ent
4 Th a s4s	L:1:4	a c a	4al I71	DTA aa			h a a 14 a s		L.		
4- The sta (a) pH				ing age					n: none o	f these	
<i>E</i> T	41.	1 .	- 4 • - • 4	- CED	T A 4.4.	4 1.					
5- Increas (a) pH cor	_		•				•	lation	(d) all	of these	e
6- Comple	ex ion	s are f	orme	d throu	gh the	format	ion of :				
(a) coordin				ionic bo			ovalent		(d)	none of	these
7- Bismut	h_ED'	TA ch	elate	may he	annrev	viated a	16.				
(a) MY	пър	171 CH		My ³ -	аррго		e) MY ⁺			(d) My	3+
8- The me	etal w	hich fa	rms <i>i</i>	comple	v with c	glahin t	o form	hemoo	lahin is	. •	
(a) calcium		inen i	(b)		a with g		chron		,100111 18	(d) cop	per
9- The me	atal co	mnley	in ch	loronh	vll ic·						
(a) calciur		прих		iron	-) manga	nese		(d) mag	nesium	
10- The m	otal a	omnlo	w in t	itamin	D in						
(a) cobalt	iciai c	ompre	(b)) zinc			(d) cadı	nium	
11- The m	otal -	whiah :	o o tivo	tos ins-	ılin ic.						
(a)calcium		viiicii	(b)) zinc				(d) sod	ium

B) In the provided table, write the name or the scientific term for each of the following: (11.0 Marks)

Q. No.	Name or Scientific term	Q. No.	Name or Scientific term
1		7	
2		8	
3		9	
4		10	
5		11	
6			

- 1- Percentage of the mean error.
- 2- The errors that follows the normal distribution curve.
- 3- Agreement of a measurement with the true value.
- 4- The arithmetic average of all measured values.
- 5- The RSD expressed as a %.
- 6- The measurement in the middle of the arranged measurements.
- 7 A test used to determine if an outlier is due to a determinate or indeterminate error.
- 8- A coefficient used to establish the linear relationship between two variables.
- 9- Measure of the capacity of the analytical method to remain unaffected by small variations.
- 10- The method can be carried out in a minimum number of steps.
- 11-A validated quantitative analytical procedure that can detect the changes with time.

C) Solve the following problem:

(3.0 Marks)

The following set of chloride analysis on separate aliquots of serum were reported; 103, 106, 107 and 114 meq/L. one value appears suspect. Determine if it may be rejected or not (the tabulated value for Q at the 95 % confidence level, 4 observations = 0.83).

(25 Marks)
(7 Marks)
while is
ator.
nile is a

B- Compare between the following giving only the main differences: (8 Marks)

<u>umoromoos.</u>	(o marko)
lodimetry	lodometry
Preoxidant	Prereductant
Andrew's reaction	Langs reaction
Oxygen flask	Langs flask

C- Discuss briefly the Principle of redox analysis of each of the compound below: (5 Marks)

the compound below:	(5 Warks)
a- Ascorbic acid.	
b- Benzoyl peroxide.	
Delizeyi perexide.	
c- Thioglycolic acid	
d- Sodium sulphate.	
e- insoluble oxalate.	

D- Comment or give reason on each of the following statement: (5 Marks)

- a- Copper sulphate can oxidizes iodide.
- b- Dark is necessary in bromomrtric determination of phenol.
- c- Zimmermann reagent should be added in assay of ferrous Chloride by permanganate.
- d- The use of chloroform instead of starch as indicator in some redox end point detection.
- e- lodide must added in preparation of standard iodine solution.



Faculty of Medicine Physiology Department Date: 12/1/2013 Time allowed: 3 hours Total mark: 65

Final Medical Physiology Exam for Third Semester Clinical Pharmacy Students

I) Blood:	Iark
1- Explain functions of plasma proteins in blood clotting, defense, viscosity of t	he
blood and maintenance of normal capillary permeability.	2
2- Define erythropoiesis and mention effect of O2 tension, iron, vitamins and liv	er on
erythropoiesis.	3
3- Define hemophilia and mention its types and causes.	2
4- Compare between heparin and dicumarol.	2
II) <u>Cardiovascular system:</u>	
1- Define excitability and mention excitability changes during cardiac activity.	3
2- Mention the effect of the following on heart rate:	5
a- Increase arterial blood pressure.	
b- Increase venous return and pressure in the right atrium and big veins oper into it.	ing
c- Inspiration and expiration.	
d- Stimulation of anterior and medial nuclei of hypo thalamus. e- Severe pai	n.
3- Define peripheral resistance and explain its role in maintaining normal arteria	al
blood pressure.	3
III) Respiration:	
1- Mention the difference between external respiration and internal respiration.	2
2- Define surfactant and respiratory distress syndrome.	2
3- Write true or false for the following statement:	4
 a- Pneumotaxic centre helps to control the switch off point of inspiration and control the rate of breathing. 	1
b- Hering Breuer deflation reflex is much more active than inflation reflex.	
c- Cyanosis is observed in anemic and histotoxic hypoxia.	
d- The threshold for cyanosis is 5 gm deoxygenated hemoglobin/l 00 ml block	od.
IV) <u>Central nervous system:</u>	
1- Mention 4 functions of the hypothalamus.	2
2- Complete:	3
a is concerned with coordination of voluntary movemer posture and balance.	ıts,
b transmit impulses to and from the brain.	
c is the pathway that nerve impulses travel when a reflex is elicited.	;
باقى الاسئلة في الخلف	

V) Kidney:	
1. Discuss hormonal control of the kidney?	4
2. Define:	
a. Transfer maximum	1
b. Glomerular filtration rate	1
VI) Autonomic nervous system:	
1. Discuss Homer's syndrome?	3
2. Mention the functions of pelvic nerve?	3
VII) Endocrine:	
1. Discuss the factors controlling the release of antidiuretic hormone?	4
2. Mention metabolic effects of insulin?	3
VIII) Digestion:	
1. Give an account on cholecystokinin hormone (Site of release, stimuli for	release&
functions)?	4

IX) State true or false and correct the false one mark each

- 1. Acetylcholine is released from all parasympathetic and sympathetic postganglionic terminations.
- 2. Nicotinic receptors are adrenergic receptors present at the neuromuscular junctions and autonomic ganglia.
- 3. Adrenaline is a weak vasoconstrictor while noradrenaline is a potent vasoconstrictors.
- 4. Renin is a hormone secreted from the juxtglomerular cells in the kidney in response to low blood pressure and low Nacl.
- 5. Glucose, amino acid and sodium are completely reabsorbed at the proximal convoluted tubules.
- 6. Vomiting occurs by strong contractions of the stomach wall, contraction of the cardiac sphincter and an increased intra-abdominal pressure.
- 7. Salivary secretion is produced by a nervous mechanism only and is essential for complete digestion of starch.
- 8. Bile salts are secreted from the liver, stored in the gall bladder and are essential for absorption of vitamins A, B and C.
- 9. Bile salts are the best stimulant for liver cells to secrete bile.

Good luck

Prof. Ibtisam Elmileegy & Dr. Eman S H Abd Allah



Assiut University
Faculty of Medicine
Date: 14/1/2013
Pharmacology Department
Time allowed: 2 hours
Final Medical Terminology Examination for Clinical Pharmacy Student (3rd semester)

Part One

(I) Rewrite the following sentences after replacement of the underlined phrases by terms and vice versa (32 marks)

- 1- A patient suffers from <u>schizophrenia</u> and in a wrong way the pharmacy technician dispensed to him <u>a drug that relieves depression</u>. It had to be taken <u>before a meal</u>, but it produced the following drug reactions: <u>below normal blood pressure</u>, <u>loss of appetite</u>, <u>cardiac arrythmias</u> and <u>oliguria</u>
- 2- A 21 year old African-American male, with a medical history of biopsy proved ulcerative colitis diagnosed in 1995, focal segmental glomerular sclerosis determined by renal biopsy in 1995, and primary se/erosing cholangitis determined by liver biopsy in 2000 presented to the neuro-ophthalmology service with complaints of binocular diplopia and ptosis of the left upper eyelid. Both the diplopia and the ptosis were better in tile morning and worsened during the course of the day. His ulcerative colitis had been in remission for the past 5 years without medication. Best corrected visual acuity was 20/25 in each eye. The external examination revealed ptosis of the left upper eyelid that worsened in sustained upgaze. He had limited extraocular motility in all fields of gaze. The remainder of the neuro-ophthalmic examination was normal and he had no difficulty with speech or swallowing. Laboratory evaluation revealed a positive acetylcholine receptor antibody and normal thyroid function studies. There was no evidence of a thymic mass on MRI of the chest. The patient returned to the emergency room 1 week later with difficulty swallowing and shortness of breath. He was hospitalised for plasmapheresis and upon discharge treated with imuran, prednisone, and mestinon. One month later his ptosis resolved and his extraocular motility was normal.
- 3- <u>Misuse</u> of corticosteroids may lead to major <u>adverse effects</u> while <u>abuse</u> of opioid <u>analgesics</u> and <u>drugs that relieve insomnia</u> may cause addiction
- 4- Patients with diabetes mellitus usually complain from <u>excessive urination</u>, while there is <u>very little urine formation</u> in those with renal dysfunction
- 5- Some virgins suffer from painful menstruation
- 6- A 27 yrs old, 72 kg, <u>primigravida</u> with twin gestation in 33rd gestational week, was admitted to our ,hospital with severe <u>preeclampsia</u> for <u>peripartum</u> care, which finally required a <u>cesarean section</u>. On physical examination <u>her blood pressure was found to be 210/110 mmHg, heart rate was 125 <u>beats/min</u> and with <u>albumin 3 + in urine</u>.</u>

		Part Ty				
	(II) For each of the following MCQs, select the ONE most appropriate answer (18Marks)					
1- Mrs. Harr	ell is schedule	d to visit her O	phthalm	nologist for an	eye	
examinati	on. She was in	structed to put	eye dro	ps In her eyes i	right before	
the appoir	ntment, to assis	st with the inter	rnal exa	mination of he	r eye.	
Which of the fo	llowing medicate	eddfops might she	be requi	red to install pri	or to the exam?	
A. Miotic	B. mydriatic					
2- "Rx" is an	abbreviation	for:				
A. Diagnosis	B. Prescriptio	on C. Pro	ognosis			
3- When you	r doctor order	s routine blood	work, h	ne or she usuall	y tests your	
		abbreviation f				
A. HBP	B. hCG	C. Hgb				
4- When an o	bstetrician or 1	nidwife refers t	o a wom	an as "nulligra	vida," what	
does he or	she mean?					
A. She is preg	gnant for the firs	st time.				
B. She has ne	ver been pregna	ant before.				
C. She has ha	C. She has had multiple pregnancies.					
5- Stomatitis	means inflarn	mation of:				
A. Stomach	B. Mouth	C. Gums	D.lips			
6-Far sighted	l is called:		•			
_		C. Hyperopia	D. Pre	esbyopia		
		patient's eyes				
				D. Op	hthalmoscope	
8- A patient v	with encephalit	tis Is most likel	y to be t	reated by whic	h of the	
	specialists?	•	V	·		
		natologist C. Neu	ırologist	D. Oncologist	E. Radiologist	
9. The suffix	-osis in the wo	rd dermatophy	tosis me	eans:	_	
	B. Condition			D. Dilation		
10. The suffix	x -penia in the	word granuloc	v1openi	a means:		
A. Decrease in 1		B. Increase in n		C. Narrowing	D. Widening	
11. The term	11. The term para- in the word parenteral means:					
A. Near from	A. Near from B. In front C. behind D. Away from					

12. The suffix -iasis in the word nephrolithiasis means:

A. Condition/Presence of B. Growth/Nourishment. C. Suspension/Fixation D. Protrusion/Swelling

13. The term pleura - in the word pleurisy means:

A. Membrane enveloping the heart B. Membrane enveloping the lungs

C. Membrane enveloping the kidney D. Membrane enveloping the abdomen

14. The suffix -lytic in the word proteolytic means A. Absence of proteins B. Chemical degradation of proteins C. Biosynthesis of proteins D. pertaining to proteins 15. The suffix -polesis in the word haemopoiesis means: A. Destruction of B. Pertaining to C. Formation of D. Originating in 16. The suffix -malacia in the word chondromalacia means A. Hardening B. Flowing C. Softening D. Producing 17. The loading dose of a drug means A. An initial high dose of a drug B. An initial small dose of a drug C. The largest dose of a drug D. The median effective dose of a drug

18. An agent given to counteract the effect of drug overdose

A. Antiserum B. Antitoxin C. Antidote D. Antigen

9-Feeling of happiness and confident sense of

10- ... A clouding or opacity of the lens of the eye

well being.

(III) Match the word parts in Column A with the definition in Column B (10 marks)

COLUMNA COLUMN B 1-The relaxation period of a cardiac cycle A. Aetiology 2-The property to stop bleeding B. Pharmacokinetics 3-.....The study of the causes of diseases C. Haemoptysis 4-The volume of blood pumped from one D. Delusion ventricle of the heart with each beat E. Cataract 5- A false belief, opinion, or mistaken idea F. Active prophylaxis 6-The study of the effect of body on the drug G. Euphoria following its administration H. Haemostatic 7-Presence of blood in the sputum 1. Stroke volume 8-....The use of an antigen to induce immunity J. Diastole

Part Three

(IV) Fill in the spaces using the correct medical term provided (between brackets), representing the following definitions in each question? (10Marks)

(Rubella - Passive Prophylaxis - Pancytopenia - Arrhythmia - Haemophilia - Sickle cell - anemia - Active Prophylaxis - Blood serum - Idiosyncrasy - Blood plasma - Pernicious anemia - Thrombosis - Chickenpox - Haemoptysis - Smallpox)

1- Irregularity of the heart rate or rhythm -----2- The formation of a clot inside a blood vessel, obstructing the flow of blood through the circulatory system -----3- ----is a decrease in red blood cells that occurs when the body cannot properly absorb vitamin B 12 from the gastrointestinal tract 4- Acute viral infectious disease caused by Varicella zoster virus (VZV), that mainly affects the skin of children -----5- An inherited blood disease associated with tendency to bleeding ------6- The whole blood minus both the cells and the clotting factors -----7 - Abnormal drug effect that may usually due to genetic deficiency of enzymes responsible for drug metabolism -----8- A pathological condition in which all the blood cell types or all parts of the blood are lacking -----9- The use of an antiserum for protection against specific infectious or toxic agent 10- Drugs that prevents an agonist from binding with receptors to produce an effect -----(V) Write your answers in the space provided for each question? (10Marks) 1- Angina pectoris is a chest pain resulting from a temporary difference between the ----- and ----- of oxygen to heart muscles. 2- Bioavailability is the ----- and ----- of drug that reaches the systemic circulation 3- Bronchiectasis means chronic dilatation of ----- & ----- due to inflammation or ----- welling obstruction. 4- Aplastic anemia is a disorder in which the ----- is suppressed or stops production of blood cells.

5- Cachexia means general ill health with e	maciation, usually occurring in association
with or a	
6- Psychosis means distortion of reality wit	h symptoms such as,
and behavior.	
7- Keratoconjunctivitis is inflammation of t	
8- Infestation is infection caused by micros	
9- Septicemia is caused by the presence of	
10- An acute febrile infection caused by Sa	
contaminated food or drink	
Finally	Part Four
(VI) Give the meaning of the following	abbreviations used in prescription in
the blank provided:	(5 Marks)
1- B.I.D. :	
2- A.C. :	
3 - I. C.:	
3- O.M.:	
5 - H. S. :	
(VII) Write the meaning of the following	abbreviations in the blank provided:
	(5Marks)
6 - ASD:	
7- DVT:	
8 - CHF:	
9- AF/F	
10- PVD:	

Good Luck

Dr. Safaa Youssef Salem

Dr. Romany Helmy Thabet



Clinical Pharmacy Students Second Level, Third Semester Pharmacognosy 2 Date, 20-1-2013



Assiut University

Total mark: 50 marks Time allowed 2 hours

Faculty of Pharmacy

قبل البدء هي الأجابة الرجاء هراءة هذه التعليمات جيدا

- ١- تأكد أن ورقة الامتحان تتكون من ٧ صفحات مختلفة (٤ ورقة) وفي حالة التكرار أو النقص يطلب استبدالها فورا. ٢- الرجاء الاجابة في الأماكن المخصصة لذلك
- ٣- يجب تخصيص الوقت المناسب لإجابة كل سؤال ومراعاة عدم تجاوزه حتى يتسنى لك اجابة جميع
- ٤- محاولة الاستعانة بالاخرين أو اعانتهم في اجابة الامتحان يعرضك للمسائلة القانونية من الجامعة وما

- لجنة الممتحنيين:-۱- أ.د/ عزه عباس خليفه ۲- أ.د./ صفاء أحمد المغازى

مع أطيب الأمنيات بالنجاح والتوفيق

All questions should be answered.

Part I: (25 Mark)

I-Complete the following sentences with suita	able words. Write your answers
in the table below:.	(18x½=9 Marks)
a- The seed is a mature integumented fertilize	ed (1), while the fruit is a
mature fertilized(2)	
b- The root can be differentiated morphologic	cally from rhizome by absence of
(3) and(4)	
c- A succulent fruit where the endocarp is har	d, one seeded is called(5)
d-The sweet taste of liquorice is due to (6)	while the bitterness is due to(7)
e(8)is a root.belongs to family Apoc	ynaceae, contains(9) alkaloid which
used in treatment of (10)	
f- Linseed helps to lower cholesterol level due	e to(11)
g- The highest percentage of capsaicin is loca	ted in the(12), while the lowest one is
present in the (13)	

h-Dandelion root is used mainly as(14)..... due to presence of(15)

i- Majudin and bergapten are(16) present in(17)..... fruit and used in treatment of ... (18)

1-	10-
2-	11-
3-	12-
4-	13-
5-	14-
6-	15-
7-	16-
8-	17-
9-	18-

11-	Choose	the	e correc	t answe	er and p	ut the sy	ymbol ii	n the tal	ble belo	ow: (12x	1/2 = 6N	(arks
	1- Lins	eed	is char	acterize	ed by ha	ving:						
	a- Straight embryo					b- Anatropous ovule						
	c- Albuminous structure					d-	· All of	the abo	ve			
	2- The following drug is used as supp				suppor	pportive therapy for cold and respiratory tract						
	infecti	on:										
	a- Liqi	ori	ce	b-Ip	есасиа	nha	c-	Echina	ісеа		d- Sene	ega
	3- The	fol	lowing	root is c	contra-ii	ndicated	l in case	e of hyp	ertensi	on:		
	a- Rauv	volfi	ia l	o- Dande	elion	C- .	Liquoric	re		d-Ipecac	cuanha	
	4-Crer	noca	arp frui	t is:								
	a- Sim	ple	dry deh	iscent f	ruit							
	b- Spli	ts ii	nto two	one see	ded me	ricarp						
	c- For	ned	from b	ilocular	bicarpe	ellary su	iperior (ovary	(d-All of	the abo	ove
	5-Krai	neri	ia root i	s used i	n:							
	a- Trea	tme	ent of d	iarrhea		b-	Treatm	ent of c	onstipa	tion		
	c- Mou	ıth v	washes			d-	a and c					
	6- <i>Ami</i>	ni v	isnaga	is used	for treat	tment o	f:					
	a- Ren	al s	pasm	b- L	eukode	rma	c-	Hyperte	ension		d- Cou	gh
	7- Traxacum root belongs to family:											
	7- Tra	acı	ım root	belongs	s to fam	ily:						
	7- Traz a- Leg			belongs b- A		•	c-	Compo	ositae		d-Rubi	aceae
	a- Leg	ımi	norse	•	pocyan	aceae	c-	Compo	ositae		d-Rubi	aceae
	a- Leg 8-Fura	umi noc	norse oumari	b- A	spocyan resent in	aceae		•		& Ammi		
	a- Leg 8-Fura a- <i>Apin</i>	umi noc um c	norse oumari & <i>Amn</i>	b- A	spocyan resent in	aceae	b-	•	majus E			
	a- Leg 8-Fura a- <i>Apin</i> c- <i>Amn</i>	umi noc um c ni v	norse oumari & <i>Amn</i> isnaga	b- Ans are parting the base of	apocyan resent in	naceae	b- d-	· Ammi · Dill &	majus & Fenne	l	i visnag	
	a- Leg 8-Fura a- <i>Apin</i> c- <i>Amn</i>	umi noc um c ni v oute	norse oumari & Amn isnaga er most	b- Ans are pai majus & Apiumalayer of	apocyan resent in	naceae n:	b- d-	· Ammi · Dill & of Foem	majus & Fenne ugreek (l	i visnag s:	
	a- Leg 8-Fura a- <i>Apin</i> c- <i>Amn</i> 9-The a-Muc	umi noc um o ni v oute ilag	norse oumari & Amm isnaga er most e	b- Ans are pai majus & Apiumalayer of	resent in m f the end	n : dospern	b- d- n cells o Aleuron	Ammi Dill & of Foem	majus & Fenne ugreek (<i>l</i> contains	i visnag s:	
	a- Leg 8-Fura a- <i>Apin</i> c- <i>Amr</i> 9-The a-Muc 10-Can	umi noc um o ni v oute ilag	norse oumari & Amm isnaga er most e	b- Ans are pair majus & Apius layer of b-Sasides of	m f the end	dospern c-z	b- d- n cells o Aleuron nn be tes	Ammi Dill & of Foem e grains	majus & Fennel greek G s h:	<i>l</i> contains	i visnag s: loid	a
	a- Leg 8-Fura a- <i>Apiu</i> c- <i>Amn</i> 9-The a-Muc 10-Can a- Con	umi noc um o ni v oute ilag diae c. n	norse oumari & Amm isnaga er most e c glycos itric aci	b- Ans are pair majus & Apius layer of b-Sasides of	m f the end sponin Strophe	dospern c-Aathus ca	b- d- n cells o Aleuron an be tes acid c-	Ammi Dill & of Foen e grains sted wit	majus & Fenned greek (S.) h:	l contains d- Alka acid	i visnag s: loid d-Picri	a c acid
	a- Leg 8-Fura a- <i>Apiu</i> c- <i>Amn</i> 9-The a-Muc 10-Can a- Con	noc um o ui v oute ilag diae c. n	norse oumari & Amm isnaga er most e c glycos itric aci maceut	b- A ns are p ni majus & Apius layer of b-Sa sides of id	m f the end sponin Strophe	dospern c-A athus ca dineral a contain	b- d- n cells of Aleuron n be tes acid c- ning kho	Ammi Dill & of Foem e grains sted with 66% su	majus & Fenned greek of Shirth the Shirth th	l contains d- Alka acid	i visnag s: loid d-Picri to be us	a c acid ed in:
	a- Leg 8-Fura a- Apin c- Amin 9-The a-Muc 10-Can a- Con 11-A p a- Viti	umi noc ni vi oute ilag diae c. n har	norse oumari & Amm isnaga er most e c glycos itric aci maceut	b- A ns are p ni majus & Apius layer of b-Sa sides of id	m f the end aponin Stropha b-N paration onstiptH	dospern c-A athus ca dineral a contain	b-d- d- n cells of Aleuron and be testacid conting khore c-Bron	Ammi Dill & of Foem e grains sted with 66% su	majus & Fenned greek of States of St	l contains d- Alka acid acid	i visnag s: loid d-Picri to be us	a c acid ed in:
	a- Leg 8-Fura a- Apin c- Amin 9-The a-Muc 10-Can a- Con 11-A p a- Viti	noc mi vi oute ilag diac c. n har igo ucila	norse oumari & Amm isnaga er most e c glycos itric aci maceut	b- A ns are p ni majus & Apiun layer of b-Sa sides of id ical prep b-Ca ne major	m f the end aponin Stropha b-N paration onstiptH	dospern c-A athus ca Aineral a contain Hion tuent of	b-d- d- n cells of Aleuron and be testacid conting khore c-Bron	Ammi Dill & of Foem e grains sted wit 66% su ellin is a	majus & Fenne of Section 1997 April 1997 Apr	l contains d- Alka acid acid	i visnag s: loid d-Picri to be us arminat	a c acid ed in:
	a- Leg 8-Fura a- Apin c- Amr 9-The a-Muc 10-Car a- Con 11-A p a- Viti 12- Mu	noc mi vi oute ilag diac c. n har igo ucila	norse oumari & Amm isnaga er most e c glycos itric aci maceut	b- A ns are p ni majus & Apiun layer of b-Sa sides of id ical prep b-Ca ne major	m f the end aponin Strophe b-M paration onstiptH r constit	dospern c-A athus ca Aineral a contain Hion tuent of	b- d- d- Aleuron an be tes acid c- ning kho c- Bron	Ammi Dill & of Foem e grains sted wit 66% su ellin is a	majus & Fenne of Section 1997 April 1997 Apr	l contains d- Alka acid acid tended t d- Ca	i visnag s: loid d-Picri to be us arminat	a c acid ed in:
1	a- Leg 8-Fura a- Apin c- Amr 9-The a-Muc 10-Car a- Con 11-A p a- Viti 12- Mu	noc mi vi oute ilag diac c. n har igo ucila	norse oumari & Amm isnaga er most e c glycos itric aci maceut	b- A ns are p ni majus & Apiun layer of b-Sa sides of id ical prep b-Ca ne major	m f the end aponin Strophe b-M paration onstiptH r constit	dospern c-A athus ca Aineral a contain Hion tuent of	b- d- d- Aleuron an be tes acid c- ning kho c- Bron	Ammi Dill & of Foem e grains sted wit 66% su ellin is a	majus & Fenne of Section 1997 April 1997 Apr	l contains d- Alka acid acid tended t d- Ca	i visnag s: loid d-Picri to be us arminat	a c acid ed in:

1 2	3	4	5	6	/	8	9	10	11	12

III- Complete the following table as required:

(4x2.5=10M)

	Root used as expectorant and emetic 1-Name of this root: 2-Mention the different active constituents:
1- Name of the fragment:2- Name of the drug:3- The different active constituents:	3- Confirmatory chemical test:
Root used as tonic and adaptogenic Name of this root: Mention the different other uses:	1- Name of the fragment:2- Name of the drug:
	3- Mention the different uses:

Part II

Question 1:

Answer what is required in the following	table: $(12x^{1/4} = 3 \text{ marks})$
Mention mode of branching in both figures	Mention type of vascular bundle:
Figure 1:	
Figure 2:	
	Figures 1& 2 represent T.S. in 2 different
	organ:
	Figure 1 is T.S. in:
	Figure 2 is T.S. in:
	Mention 2 differences between them in their
	morphological characters:
	1
	2
	This figure is:
	Drug showing this figure is:

	- Mention name of this powdered drug:
	- Complete the following:
	is responsible about the
	pungent taste of the drug and it is
	in its nature and its pungency could be
	destroyed by; while
	is responsible about its
	characteristic taste and it is
	in its nature. Key element 1 is
	& Key element 2 is
you are supplied with emollient cream	
composed of natural drugs as seen in the	
pamphlet, please answer the following:	
for dug 1 mention another medicinal use	
for dug 2 mention its active constituents:	
For dug 3 mention methods of its	Mention methods of detecting honey
adultration:	adultration:
	This hair is key element of powdered:
	and the main chemical
	test for its detection is

Question II:

Give the scientific meaning for each of the following definitions (5 marks)

Scientific term	Definitions
	The milky sap of many plants that coagulates on exposure to air
	They are crude drugs of plant or animal origin and have no cellular or definite structure
	Narcotic analgesic from natural source
	It is a saccharine substance deposited by the hive bee <i>Apis</i> mellifera and other <i>Apis</i> spp. in the cells of the honeycomb
	They are resinous mixtures containing large proportions of benzoic or cinnamic acids or both or esters of these acids
	It is a fixed oil extracted from the fresh liver of the <i>Gadus</i> morrhaua Linne (F.: Gadidae).
	They are fluidly plant saps containing dissolved substances & usually present in special structures within the plant.
	In this type of vascular bundles there is phloem at both sides
	It consists of the milky fluid produced by the salivary glands of workers bees
	It is a mixture of reversible gel-forming proteins obtained by treating certain animal tissues, particularly skin and bones with hot water.
	It is the dried colloidal concentrate from the decoction of various red algae particularly species of <i>Gelidium, Petrocladi</i>

Question III:

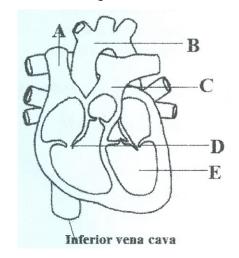
Choose from column B and column C what is suitable for column A: (10 marks)

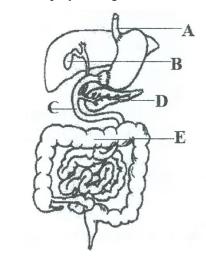
column A	column B	column C
{ , } Ergot	{1} etoposide	{a} used for insomnia treatment
{ , } Milk thistle	{2} colchicine	{b} Supportive treatment for acute and
		chronic hepatitis and cirrhosis
{ , } Curcuma	{3} atropine &	{c} used in case of jaundice &
	hyoscyamine	infective hepatitis
{ , } Colchicum	{4} ergotamine	{ d} dilate eye pupil
{ , } Code liver oil	{5} curcumin	{e} rickets and night blindness
{ , } Olive oil	{6} omega-3- fatty	{f} treat cell lung cancer
	acid	
{ , } Podophyllum	{7} volatile oil	{g} used in treatment of migraine
{ , } Sunflower oil	{8} silymarin	{h} protect against colon cancer
{ , } Valerian	{9} Vitamin A & D	{i} lowers cholesterol level
{ , } Datura	{10} oleic acid,	{k} used for treatment of acute Gout
	linoleic acid,	
	palmatic and stearic	
	acid.	

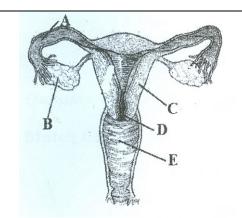
مع تمنياتنا لكم بالنجاح والتوفيق

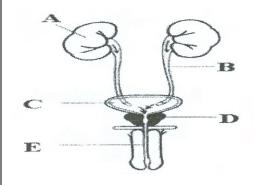
Question I (20 marks)

Write the missing labels from A to E in each of the displayed diagrams









Question II (15 marks)

Complete spaces with appropriate words

i-Meninges around the brain aremater.
ii-Digested absorbed food reach theviavein
iii-Ejaculatory duct is formed by union of and
ivsurrounds the lung and is formed of and parietal layer.
v-Brain stem is formed of medulla, and
vi-Skin is formed ofand dermis.
vii-Three types of muscles are and and

Question III (5 marks)

Match bones in column I with their type in column II

Column I	Column II
I-Humerus ()	a-Short bone.
2-Tarsal bones ()	b-Seasarnoid bone.
3-Paranasal sinuses ()	c-Flat bone.
4-Sternum. ()	d-Long bone.
5-Patella. ()	e-Pneumatic (air) bone.

Question IV (5 marks)

Match glands in column I with position in column II

Column I	Column II
I-Parathyroid ()	a-Hypodermis.
2-Pineal ()	b-Pelvis.
3- Thymus ()	c-Neck
4-0vary ()	d-Part of the brain.
S-Sebaceous ()	e- Thorax.

Question V (5 marks)

Match Carnial nerves in column I with function in column II

Column I	Column II
I-Oculomotor()	a-Smell
2- Vestibulocochlear ()	b-motor to tongue
3-0ptic ()	c- Movements of eye
4-Hypoglossal()	d-Hearing
5-0lfactory ()	e-Vision

Question VI (15 marks)

Choose only ONE correct answer

1-Intervertebral disc is

- a) Secondary cartiJaginous joint.
- b)Synovial joint.
- c) Fibrous joint.
- d) Primary cartiJaginous joint.

3-An artery with non-oxygenated blood

- a)Coronary artery.
- b)Spinal artery.
- c)Pulmonary artery.
- d)Renal artery.

5-Pituitary gland is present in

- a)Behind thyroid gland.
- b)Above the right kidney.
- c)At base of the skull.
- d)In the orbit.

7-Adult Male urethra is

- a)20 cm.
- b)4 cm.
- c)35 cm.
- d)lO cm.

9-All are characteristics of large intestine EXCEPT

- a)Has sacculations.
- b)Has tenia coli.
- c)Has appendicis epiploica (fat tags).
- d)Has viIi in its mucosa.

11-All are functions of the liver EXCEPT

- a)Metabolism.
- b)Secretion of insulin.
- c)Formation of urea.
- d)Detoxication.

13-False about Urinary bladder

- a)lt receives terminations of two ureters.
- b)It is abdominal in young children.
- c)Its capacity reaches up to 3 !iters.
- d)1ts wall contains random smooth muscles.

15-Destruction of red blood cells occurs in

- a)Spleen.
- b)Pancreas.
- c)Bone marrow.
- d)Large intestine.

l-Fibula is a bone of

- a)Forearm.
- b)Skul1.
- c)Leg.
- d)Hand.

4-Pancreatic duct opens in

- a)Stomach.
- b)Cecum.
- c)Jejenum.
- d)Duodenum.

6-Capacity of an adult stomach is

- a) 5 liters.
- b) Half liter.
- c) One and half liter.
- d) 300 ML.

8-Number of cervical vertebrae

- a)12.
- b)7.
- c)5. d)3.

10-All are in the stomach bed

EXCEPT

- a)Spleen.
- b)Left suprarenal gland.
- c)Liver.
- d)Left kidney.

12-Part of the brain concerned with balance

- a)Thalamus.
- b)Cerebellum.
- c)Hypothalamus.
- d)Midbrain.

14-Left atrioventricular valve is called

- a)Mitral valve.
- b)Tricuspid valve.
- c)Semilunar valve.
- d)Pentacuspid valve.