Faculty of Pharmacy
End Year Examination
Clinical Chemistry

Clinical Pharmacy Time allowed: 2 hours.

Multiple choice questions (Total: 10 marks)

- 1. Select the coupling enzyme used in the hexokinase method for glucose:
  - a. Glucose dehydrogenase.
  - b.Glucose 6- phosphatase
  - c.Glucose 6- phosphate dehydrogenase
  - d.Peroxidase.
- 2. Which of the following results are the most consistent with high risk for coronary heart disease:
  - a. 20 mg/dL HDL cholesterol and 250 mg/dL total cholesterol.
  - b. 35 mg/dL HDL cholesterol and 200 mg/dL total cholesterol
  - c. 50 mg/dL HDL cholesterol and 140 mg/dL total cholesterol
  - d. 60 mg/dL HDL cholesterol and 170 mg/dL total cholesterol
- 3. Which of the following is used in early diagnosis of AMI:
  - a. an elevated CK.MB
  - b. an elevated AS T
  - c. an elevated AL T
  - d. Normal myoglobin
- 4. Addison's disease is characterized by:
  - a. high cortisol level
  - b. low cortisol level
  - c. normal levels of ACTH
  - d. low serunt"sodium
- 5. In eases of acute hepatitis, we find:
  - a. Marked elevation of both AST and ALT.
  - b. Increased serum bilirubin
  - c. Bilirubin in urine
  - d. Decreased plasma proteins
  - e. All of the above
  - f. None of the above

- 6- Thyrotropin releasing hormone (TRH) stimulate the secretion of:
  - a. Prolactin
  - b. Growth hormone
  - c. Thyroid stimulating hormone
  - d. Both a & c
- 7. The hormone produced by the pineal gland is:
  - a. Oxytocin
- c- Pinealtonin
- b. Melatonin
- d- Non of the above
- 8. Which of the following is not a hormone of the GI system:
  - a. Gastrin
  - b. Cholecystokinin
  - c. Intrinsic factor
  - d. Secretin
- 9. Creatinine clearance is corrected using body surface area to account for difference in:
  - a. Age
  - b. Muscle mass
  - c. Protein intake
  - d. Fluid intake.
- 10. In Froin's syndrome, which is true:
  - a. Increased CSF cell number
  - b. Increased CSF protein
  - c. Increased CSF protein with normal cell number
  - d. Increased CSF protein and increased cell number

Case studies (5 marks each).

1- A.young adult student used to eat delivered food. After about a month from his last meal in a famous restaurant, he started to feel unwell with loss of appetite, nausea and right hypochondrial pain. He developed yellow coloration of the eyes & skin.

He asked medical advice.

Laboratory findings.

- 1. Serum AST markedly elevated.
- 2. Serum ALT markedly elevated.
- 3. Serum bilirubin increased.
- 4. Serum ALP increased.
- 5. Serum 'albumin and total protein were normal.

- 6. Urine showed increased urobilinogen and presence of bilirubin.
- What is your provisional diagnosis?
- Comment on the laboratory results.
- What are further investigations needed to reach final diagnosis?

II - A 34-year-old man was admitted for diagnostic evaluation with the complaint of epigastric pain of 2 years' duration, which was variously described as burning. He had been diagnosed with a duodenal peptic ulcer 18 months ago; at that time, therapy with antacids and dietary revision provided considerable alleviation of symptoms. More recently, the pain had become more persistent and awakened the patient 4-6 times each night. Radiologic studies revealed a 2.5 cm ulcer crater in the first protion of the duodenum and a 0.5 cm ulcer in the antrum of the stomach. Gastric analysis revealed 640 ml of secretion in the basal hour, with an acid output 38mEq, and 780 ml of secretion in the I-hour pentagastrin stimulation test, with acid output of 84 mEq.

- What is the probable disease?
- What other tests would be diagnostic for this disease?

#### Give an account on:- (3 marks each).

- 1. Thyroid hormones synthesis steps.
- 2. Kidney function tests (enumeration).
- 3. Syndrome of in appropriate secretion of ADH (SIADH) definition, causes and Laboratory findings.
- 4. Causes of increased gastrin hormone level.
- 5. Causes of increased protein in CSF.
- 6. Serum IgG.
- 7. C-reactive protein
- 8. Laboratory findings in primary hyperparathyroidism.
- 9. Laboratory findings in diabetic ketoacidosis.
- 10. Osteppbtosis, causes and laboratory findings.

Good Luck

#### PHARMACOLOGY EXAMINATION

For

Clinical Pharmacy Students (PHARMACOLOGY 2) (Code PO 802)

Time Allowed: 2 hours All questions are to be attempted

- 1. Classify oral antidiabetic agents gIVIng drug examples. Mention the mechanism of action and side-effects of each group. (5 marks)
- 2. Write an account of the pharmacological actions, mechanism of action, therapeutic uses and side-effects of antiestrogenic drugs. (5 marks)
- 3. Mention the main therapeutic uses, adverse effects and contraindications of opioids with drug examples. (10 marks)
- 4. Define selective toxicity of antimicrobial agents giving drug examples with an emphasis on the mechanism of action. (5 marks)
- 5. Write an account of the rapid and delayed adverse effects of phenothiazines and how to avoid. (5 marks)
- 6. Mention some members of the antibiotics used in fungal infections and write down the mechanism of action and main adverse effects of each member.

  (5 marks)
- 7. Discuss the mechanism of action, pharmacokinetics and therapeutic uses of metronidazole. (5 marks)
- 8. Mention the drug groups used to treat Parkinsonism with drug examples, mechanism of action and adverse effects of each group. (10 marks)

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#### كلية الحيدلة - جامعة أسيوط

<u>لجنة الممتحنين:</u> ۱- أ.د. عادل ريان محمد ۲- د. نادية أمين محمد الصيدلة الإكلينيكية الفرقة الرابعة كود المقرر: pp806 امتحان دور مايو ٢٠١٠ المادة: التسويق الدوائى عدد الصفحات: ٢ زمن الامتحان: ساعة ونصف التاريخ: ٩ يونيو ٢٠١٠

أجب الأسئلة التالية:

السؤال الأول: ناقش مدى صحة العبارات التالية (مع التعليق)

١- يشمل النشاط التسويقي كل الأطراف التي تهتم برعاية المريض وصحته ورفاهيته.

 ٢- تأتى المنافسة في الصناعات الدوائية من شركات الأدوية الأخرى التي تنتج نفس الأدوية التي تنتجها شركتنا.

٣- إن عملية التغليف في المنتجات الصيدلانية ليست كأي عملية تغليف أخرى.

٤- مندوب المبيعات الطبية هو الذي يتعامل مع الأطباء لإقناعهم باستخدام أدوية شركته دون الشركات الأخرى.

السؤال الثاني: اذكر المصطلح العلمي للمفاهيم التالية: (٢٥ درجة)

١- هو العملية التي يتم من خلالها بلوغ سوق الرعاية الصيدلانية.

٢- هو أي مادة أو خليط من المواد ، يتم تصنيعها كدواء في شكل صيدلى ، سواء للاستعمال الأدمى أو البيطري ، وتخضع لرقابة التشريعات والقوانين الصحية للبلاد.

- ٣- المزايا الأساسية التي يبحث عنها المشترى والتي تسمح بإشباع حاجاته.
- ٤- مجموع العناصر التي تكون جزء من المنتج والتي تباع معه من أجل حفظ محتوياته.
- عملية وضع أهم البيانات والمعلومات على أو داخل المنتج وهي مهمة لإظهار كيفية استعمال المنتج وفاعليته بالإضافة الى المضاعفات الناتجة عن استعماله.
- ٦- هو التعبير النقدى لقيمة السلعة في وقت ومكان معين و هو العنصر الوحيد من المزيج التسويقي الذي يمثل اير إدات المنشأة.
  - ٧- عملية نقل المنتجات الدوائية من أماكن الانتاج الى اماكن الاستهلاك في الوقت والمكان المناسبين.
  - ٨- مجموعة الجهود الترويجية التى تسعى لتعريف جمهور الأطباء واقناعهم بأنواع المنتجات الدوائية ودفعهم لوصفها لمرضاهم.
    - ٩- هو الذي يتعامل مع الأطباء لإقناعهم بالستخدام أدوية شركته دون الشركات الأخرى.

١٠ - هو الذي يتركز عمله على توفير طلبيات الأدوية التي تحتاجها الصيدليات.

السؤال الثالث: ما اسم الاستراتيجية المتبعة في كل حالة مما يلي: (٢٥ درجة)

١- يتعامل المسوق في تلك الاستراتيجية مع السوق الكلى ككتلة واحدة أو كقطاع واحد.

- ٢- يحدد السوق المستهدف للمنظمة بقطاع سوقى واحد.
- ٣- تبنى ما يسمى بأساليب التسوق الهجومى مثل التخفيضات الملموسة فى الأسعار أو الإعلان المكثف
   أو أساليب تنشيط المبيعات غير التقليدية.
- ٤- تبحث المؤسسة عن رفع مبيعاتها بدخول منتجاتها الحالية لأسواق جديدة ، تستطيع توسيع أسواقها محليا أو وطنيا أو دوليا.
  - د تحاول المنظمة أن تميز منتجاتها عن منتجات أخرى من نفس النوع ، وتطوير العمق بإضافة منتجات جديدة على خط المنتجات أي يزيد عدد المنتجات ولكن لا تتخلى عن ما هو موجود من منتجات سابقا.
    - ٦- تطوير أو تغيير بعض الصفات للمنتجات القائمة مع ابقاء عدد المنتجات ثابت.
  - ٧- تهدف الشركة من اتباع هذه الاستراتيجية الى الحصول على حجم كبير من السوق غير المجزأ
     حسب الدخل بحيث تسعى الى الوصول الى السوق الكلية وذلك عن طريق تحديد أسعار منخفضة
     لسلعها.
- ٨- يقوم المنتج باختيار موزع وحيد أو عدد محدود من الوسطاء للتعامل مع السلعة في منطقة معينة.
- ٩- يحاول المنتج تحقيق أكبر قدر من تغطية السوق ولذا فإنه يتعامل مع الأكبر عدد ممكن من تجار التجزئة والجملة في كل منطقة.
- ١٠ تتبع هذه الاستراتيجية في السوق المتباينة حسب فئات الدخل ، ويتم تحديد سعر مرتفع للسلعة الجديدة بحيث يوجه هذا السعر الى الفئة الأولى في السوق والتي يهمها الحصول على السلعة مهما كان مرتفعا.

السؤال الرابع: اكتب في الموضوعات التالية:

١- خصائص المنتجات الصيدلانية.

٢- أهمية الترويج بالنسبة للمنتج الدوائي.

#### انتهى الامتحان مع أطيب التمنيات بالتوفيق

Department of Pharmacology Faculty of Medicine Assiut University

# Final Examination In Drug Interactions

Course Code PO 803

Time allowed: Two hours Date: 23/6/2010

Overtina NO	111	Ans	swer She	et	
Question NO 1	2	3	4	5	
Question NO	<u>IV</u>				
1	2	3	4	5	
6	7	8	9	10	
11	12	13	14	15	
16	17	18	19	20	

# 1-<u>Read carefully the following case and answer the</u> <u>following questions</u> (15 marks)

A 60 year old man suffered from increased intraocular pressure "about 30 mm/Hg". He was treated with one of anticholine estrases for along period of time. Suddenly he developed an acute attack of appendicitis and surgery was recommended. The patient was prepared for such surgical procedure using different preansthetic medications.

Write letter (T) for the true & (F) for the false statement regarding the expected drug-drug interactions. Justify your answer.

a- Flaxedil may be used safely as skeletal muscle.
b- Succinly choline must be used cauriously as skeletal muscle relaxant in this case.
d- Preanesthetic medication with atropine is highly recommended.
e- Blood transfusion is one of the main treating measure in case of succiny choline toxicity in this case.

# II- Write in details how the combination of each pair of the following drugs lead to adverse effect:-

(10 marks)

1- Warfarin + Phenylbutazone
2- Neomycin + Succinylcholine
3- Tolbutamide + Sulfisoxazole
4- MAOIs + Tyramine

# III- For each of the following MCQ(s) select the most appropriate answer (10 marks)

- 1- Regarding the renal drug interaction, all the following statements are <u>False Except:</u>-A)Renal tubular secretion is mainly affected by pH of the urine.
  - B)Acidification of the urine increases the renal reabsorption of weak acids.
  - C)Alkalinization of the urine may inhibits the carrier transport mechanism of drugs.
  - D)Renal drug interaction represent a pharmacodynamic drug-drug interaction mechanism.
- 2- Regarding the interaction of N-methyl-3-piperidyl diphenyl carbonate (NMPDC) with hexabarbitone, all the following statements are <u>False Except</u>:-
  - A)If MNPDC is given 12 hours after hexobarbitone leads to prolongation of sleeping time.
  - B)If NMPDC is given 24-48 hours after bexobarbitone leads to prolongation of sleeping time.
  - C) Shorter exposure of liver microsomal enzymes to NMPDC "12 hours" enhance hexobarbitone induced sleeping.
  - D)NMPDC exhibits no interaction with hexobarbitone.
- 3- Regarding drug-drug interaction which involve the modification of biotransformation, all the following statements are <u>False Except:</u>-
  - A)Enzyme inducers inhibit the metabolism of Co-administered drugs.
  - B)Phenobarbitone may increase the ty, of dicoumarol.
  - C)Enzyme inhibitors induce the microsomal enzymes which metabolize aspirin.
  - D)In case of enzyme inducers or inhibitors the dose of the Co-administered drug must be corrected
- 4-Regarding modification of water and electrolyte balance as a target system for drug-drug interaction all the following statements are <u>False Except</u>:-
  - A) Hypokalemic drugs decrease the toxicity of digitales.
  - B)Hypokalemic drugs increase the toxicity of digitales.
  - C)Hyperkalemic drugs decrease absorption of digitales.
  - D)Hyperkalemic drugs decrease distribution of digitales.
- 5- Regarding drug-drug interaction which involve the displacement from plasma protein binding sites, all the following statements are False Except:-
  - A)It represents one of the phatmacokinetic drug-drug interaction.
  - B)Dicumarol displaces tolbutamide from plasma protein binding leading to severe hyperglycemia.
  - C) Tolbutamide displaces dicumarol from plasma protein, binding leading to severe bleeding.
  - D) Salicylates decrease the toxicity of bilirubin due to their displacement from plasma protein.

## IV-<u>Write (T) for the True and (F) for the False</u> <u>statement:-</u> (10 marks)

- 1- Cholestyrarnine inhibits absorption of thyroxine.
- 2- Quinidine displaces digoxin from its binding site.
- 3- Veraparnil can elevate plasma levels of digoxin.
- 4- Dicoumarol inhibits biotransformation of phenytoin.
- 5- Probencid increases the renal excretion of penicillin.
- 6- Lithium clearance is increased by diuretics.
- 7 Sildenafil and nitroglycerin administration causes hypertension.
- 8- Aimiodarone inhibits excretion of digoxin.
- 9- Aspirin decreases incidence of bleeding in warfarin.
- 10- Isoniazid inhibits phenytoin metabolism.
- 11- Sulfonarnides increase the hypoglycemic effect of sulfonylurease due to displacement from plasma protein.
- 12- The antibacterial activity of chloramphenicol is enhanced by penicillin.
- 13- Milk drinking decrease the absorption of tetracycline.
- 14- Ether enhances the respiratory paralysis induced by neomycin.
- 15- Aminoglycosides decrease the presynaptic release of epinephrine.
- 16- The ototoxicity of fursemide is decreased by concurrent use of toprarnycine.
- 17- Sulbactam protect penicillins against the hydrolysis by p-Iactarnase producing microorganisms.
- 18- Vitarnine K is used to treat the hypoprothrombinemia-induced by cephoperazone.
- 19- Rifampin increases the biotransformation of oral contraceptives but not methadone.
- 20- A diet with high protein content suppress the renal excretion of amphetamine.

## V- Write short notes on drug-drug interactions of each of the following: (15 marks) A) β- adrenergic anatgonists. ..... ..... ..... ..... ..... B) Anticonvulsants. ..... ..... ..... ..... ..... C) Quinioline. ..... ..... ..... ..... .....

# VI- In drug-food interactions, the food may act as interactant and modify the pharmacodynamic effects of the drug.

	(10 marks)
Discuss this statement giving examples.	



#### Assiut University-Faculty of Pharmacy Pharmaceutical- Analytical Chemistry Department Pharmaceutical Analysis & Quality Control (PC808) Final Examination-June 26, 2010 Time Allowed: 2 hours



عامعة أسبوط

(25 Marks)

كلية الصيدلة			

1- Write short notes on each of the following:

Part (A), Dr. Ashraf Mohamed

1. The objectives of quality control? (3 Marks)

2. Factors affecting the selection of an analytical method (3 Marks)

3. The differences between random and systematic errors and numerate how can you minimize the errors? (اكمل اجابة هذا السؤال في ظهر الورقة) (6Marks)

II- Complete the following sentences with the missing word(s) (7 Marks)				
1- Quality can be defined as a product or service free of				
and quality control can be defined as of defects, while quality				
assurance can be defined as of defe	ects.			
2- Deming Cycle is an iterative-				
3- Quality is concerned with samp	oling, spec	ifications,		
testing, organization, documentation & release, and it is	s a part of	quality		
4- Calibration is the conversion of value	e into a mo	ore reliable		
result, which is called value. It can be	e made by	using		
in similar matrices.				
5- Sample is aportion sele	ected from	the bulk.		
6- The samples can be classified according to the samplin	g plan into	o 4 types:		
a c				
b d				
III- Mark $[\sqrt{\ }]$ for the correct statement and $[x]$ for the wrong wrong words and then correct it in the correction colu		lerline the (6 Marks)		
The statement	Mark	correction		
1.Sampling tools should be made of active materials, avoid glass				
2.Disposable sampling materials cannot be used for				
sampling.				
3. Samples should never be returned to the bulk.				
•				
4.Representative samples must be taken in very small quantity.				
5.Operating Characteristic Curve is a designed three- point method to accept or reject the sample				
6. The "n-plan" is used only when material is considered non-uniform and from a recognised source.				
7. The "r-plan" is used for herbal medicinal products				

Part (B), Prof. Dr. Abdel-Maaboud Ismail [I] Stability indicating analytical methods would be achieved via: 1-	(25 Marks) (3 Marks)
2-	
3-	
[II] In general, validation protocol should contain the following:	(3 Marks)
1- 2- 3-	(3 Marks)
3- 4- 5-	
6- 7- 8- 9-	
[III] Reference Standards are characterized according to the intend follows:	led use as (4 Marks)

<ul><li>[IV] Chemicals can be classified depending on their purity to differ including:</li><li>1-</li></ul>	rent grades (4 Marks)
2-	
3-	
4-	
<ul><li>[V] Give reason for each of the following:</li><li>1- Inactivation of Gentamycin by pencillin in admixtures for inject</li></ul>	(4.5 Marks)
2- Aspirin is inactivated with time in the presence of moisture	
3- Sodium metabisulfite (NaHSO <sub>3</sub> ) is incompatible with catecholar solutions for injection	nines in

[VI] Select from list (A) the correct staten	nent for each in list (8): (6.5 Marks)		
1· LOD	A) 2- Pure chemicals		
3. Incompatibility	4- Accuracy		
5- Stability	6- Intermediate precision		
7· Robustness	8· Working standards		
9- Racemization	10- Linearity		
11 · Repeatability	12- Primary standards		
13· L1MS	14- LOQ		
15· Range	16· Specificity		
17.Ruggedness	18- Precision		
19.Reproducibility	20- System suitability test		
( ) Is the interval between upper and low	B) er concentration of analyte in a sample		
( ) Laboratory information management	system		
( ) Agreement between the value which i	s accepted either as a conventional true		
value or an accepted reference valueand	the value found		
( ) Is the within-laboratories variations:	lifferent days, different analysts, etc.		
( ) Is the lowest amount of analyte in a sa	ample which can be detected but not		
necessarily quantified as an exact value.			
( ) Is a measure of procedure capacity to remain unaffected by small variations in			
method parameters and provides an indication of its reliability during usage.			
( ) Ensures that total system is functioning well at any given time.			
( ) Materials which are accepted"without	reference to other standards		
( ) Is the ability to assess analyte in prese	ence of components which expected to be		
present.			
( ) Reagent-grade chemicals, which have	been purified as possible as could be		
( ) Undesirable reactions between two or	more components are said to result in		
physical and/or chemical changes.			
( ) Materials which are designed for daily	y use in analysis (routine quality control)		
( ) It is the process of changing from an optically active compound into a racemic			
(optically inactive or less active) mixture.			

Assiut University
Faculty of Pharmacy
Department of Pharmaceutics
Clinical students (Class 6&8)
Final cosmetics preparation examination

Instructors: Dr. Fawzia Habib Dr. Fergany Total grade (75 marks)

Time allowed: 2 hours Date: Monday 28/6/2010

All questions should be answered

#### <u>Part I (40 Marks)</u> <u>Prof. Dr. Fawzia Habib</u>

Q1)

(Elective course)

1- Surfactants are the main ingredients in shampoo manufacturing, enumerate the requirements of shampoo surfactants (4 Marks).

- 2- What is the main composition and function of each of the following **(6 Marks)**: a- dry shampoo
- b- shampoo for dry hair
- 3- Explain the "half lead comparison test" for evaluating the success of shampoo (4 Marks).

4- On the Basis of the effect of solar radiation on the skin, classify the UV range (6 Marks).
5- Write the main factors affecting the efficacy of sunscreen (6 Marks).
6-a) Titanium dioxide is preferred as covering powder over zinc oxide in preparing face powder, Give reason (s) (4 Marks).
b) What is the importance of particle size reduction in face powder technology? (4 Marks).

# Q2) In tabulated form state the role of each ingredient in the next face powder (6 Marks, each point 2 marks)

Face powder Formulation		Role of each ingredient
Formula 1	<u>%</u>	
Talc	65	
Precipitated chalk	10	
Zinc oxide	24	
Zinc stearate	6	
Perfume, colour	q.s.	
Formula 2	<u>%</u>	
Talc	60	
Kaolin	20	
Zinc oxide	15	
Zinc stearate	5	
Perfume, colour	q.s.	
E	0/	
Formula 3	<u>%</u>	
Talc	50	
Rice starch	15	
Precipitated chalk	15	
Zinc oxide	15	
Zinc stearate	5	
Perfume, colour	q.s.	

Q3) Complete the Following (10 Marks)
a- The properties required for a good cleaning cream are (4 Marks):
1.
2.
3.
4.
2- The shaving lather must be in texture and reasonably (2 Marks):
3- Shaving Stik composed of (write the formula) (4 Marks):
1.
2.
3.
4.
5.

GOOD LUCK



Assiut University Faculty of Pharmacy Pharm. Anal. Chem. Dept. PC 808 2<sup>nd</sup> Semester 2010/2011 Mid-Term Exam May, 14, 2011 Time Allowed: 1/2 Hour

اسم الطالب: رقم الطالب:

[I]	Mark $[\sqrt]$ for the correct statement and $(X)$ for the wrong one (2.5 marks)	5)	
(	) Deming cycle involves three steps problem solving process		
(	) Sampling tools should be made of active materials		
(	) Quality control can be defined as prevention of defects		
(	) The indeterminate type-errors are often unidirectional		
(	) Samples should be returned to the bulk		
(	) Analytical sample should not be taken directly from the bulk lot		
(	) SO procedure means a procedure of step-operations		
(	) Quality must be built into the product during research development and		
production			
(	) In good analytical practice each worker in the laboratory looks for the source	e	
of	variability and try to minimize or cure it		
(	) GMP abbreviates good manufacturing practice		

## [II] Select from list (A) the correct statement for each in list (B): (2.5 Marks)

	(A)		
1- System suitability test	2- Specificity		
3- Intermediate precision	4- LOO		
5- Working standards	6- Range		
7 - Repeatability	8- Primary standards		
9- LOQ	10-ICH		
11- Accuracy	12- Robustness		
13- Precision	14- Reproducibility		
15- Ruggedness	16- Linearity		
	(B)		
( ) A measure of reproducibility of to	est results under normal, expected		
operational conditions from laboratory	to laboratory and from analyst to analyst.		
) Agreement between the value wh	ich is accepted as a conventional true value		
and the value found			
( ) Is the lowest amount of analyte in	asamptiwhich can be quantitatively		
determined with suitable precision and	l accuracy.		
) Is a m~ure of procedyre capacity to remain unaffected by small variations i			
method parameters and provides an in-	dication of its reliability during usage.		
) Ensures that total system is functi	oning well at any given time.		
) Materials which are accepted with	hout reference to other standards		
) Is the ability to assess analyte in presence of components which expected to			
pe present.			
) Materials which are designed for daily use in analysis (routine quality			
control)			
) International Conference on Harn	nonization of Technical Requirements for		
he Registration of Pharmaceuticals fo	r Human Use		
( ) Agreement between a series of m	easurements obtained from multiple		
sampling of the same homogeneous au	ithentic sample under prescribed		
conditions.			

Department of Pharmacology College of Medicine Assiut University

# Pharmacology (2) Examination For Clinical pharmacy students

Date: June 9<sup>th</sup> 2011 Time allowed: 2 hours

All questions are to be attempted

#### **QUESTION (1)**

Write an account of the following: (30 marks):

A. Pharmacological actions, therapeutic uses, adverse reactions, contraindications and precautions during use of morphine and its congeners (8 marks)
B. Drug treatment of rheumatic disorders (7 marks)
C. Causes of failure of antibiotic therapeutic (4 marks)
D. Therapeutic uses of fluoroquinolones (5 marks)

E. Side-effects of aminoglycosides (3 marks)

#### **QUESTION (2):**

#### In your answer notebook write down T for the true and F for the false statement (10 marks):

- 1. Corticosteroids cause hypokalemia ,hypocalcemia and hyponatremia
- Estrogens and progestins as oral contraceptives inhibit ovulation by suppressing gonadotropin release from anterior pituitary gland

(3 marks)

- 3. Ethambutol or rifampin should never be used alone in treatment of TB
- 4. Biliary excretion increases duration of some drugs as estrogens
- 5. Mebendazole is a drug of choice in treatment of taenia and hemonolepsis
- 6. Insulin is contraindicated in case of hyperglycemic ketoacidosis
- 7. Co-trimoxazole causes sequential blockade offolic acid synthesis
- Metronidazole is used in cases of amebiasis, trichomoniasis, gardiasis and anerobic bacterial infections
- 9. The effect of methotrexate is potentiated by leucoverin

F. Examples and therapeutic indications ofthionamides

10. Erythromycin is an aminoglycoside antibiotic used against aerobic gram negative bacteria

#### **OUESTION (3):**

<u>In your answer notebook match each statements in the left column with the most appropriate</u> drug in right column (10 marks):

No	Statement	Letter	Drug
1	A Disease Modifying Anti- rheumatic Drug (DMARD)	A	Sertraline
2	Used prophylactically as mood elevator in bipolar manic depressive illness with low thera eutic index	В	Haloperidol
3	A potent and effective butyrophenone antipsychotic that produces more extrapyramidal disorders than chlorpromazine	C	Acetylsalicylic acid
4	Can be used prophylactically in chronic attacks of gout	D	Clozapine
5	Must not be used with tyramine containing food	E	β-endorphin
6	An effective anti s chotic devoid of extra ramidal disorders	F	Tranylcypromine
7	benzodiaze ine rece tor a onist used to induce sleeping	G	Sulfasalazine
8	An endogenous opioid released in cases of stress and trauma	Н	Lithium chloride
9	A relativel safe antide ressant actin as SSRI	I	Zaleplon
10	Its action on uric acid is dose-dependent	J	Colchicune

#### كلية الصيدلة - جامعة أسيوط

المادة: التسويق الدوائى الصيدلة الاكلينيكية <u>لجنة الممتحنين:</u>
عدد الصفحات: ٢ فصل: ٨ ا- أ.د. عادل ريان محمد رمن الامتحان: ساعة واحدة كود المقرر: PP 608 ٢- د. نادية أمين محمد التاريخ: ١١ يونيو ٢٠١١

#### أجب الأسئلة التالبة:

السؤال الأول: ناقش مدى صحة العبارات التالية (مع التعليق):

- ان التسويق الدوائي أو الصيدلاني هو العملية التي لايتم من خلالها بلوغ سوق الرعاية الصيدلانية.
  - ٢- تستمد شركات الأدوية بقائها من خلال تكيفها مع بيئتها المحيطة.
  - إن السوق الصيدلاني ينفرد ويتميز عن غيره من الأسواق في عدة خصائص مهمة.
- ٤- في الصناعة الدوائية، يوجه المزيج الترويجي في الغالب الى المستهلك أو المستخدم النهائي للدواء المريض.

السؤال الثاني: أذكر المصطلح العلمي للمفاهيم التالية: (٢٥ درجة)

- ١- تشمل هذه الفئة الأطباء والصيادلة والأطباء البيطريين والممرضات، وهؤلاء يمثلون أهمية خاصة لشركات صناعة الدواء لأنهم يمثلون المستهلك أو العميل الداخلي.
- ٢- هي القوى الفعالة داخل وخارج المنظمة التي تؤئر على قدرة إدارة التسويق لإجراء التبادلات مع المستهلكين.
  - ٣- مادة تستعمل في تغيير أو معالجة الأنظمة الفسيولوجية الخاصة بالمريض.
  - ٤- هي تركيبات كيميائية تستعمل للوقاية وكذا التجميل، التنظيف، ولها نفس مصدر الأدوية.
- عملية وضع أهم البيانات والمعلومات على أو داخل المنتج وهي مهمة لإظهار كيفية استعمال المنتج وفاعليته بالإضافة الى المضاعفات الناتجة عن استعماله.
  - ٦- اسم أو تعبير أو إشارة أو رمز أو تصميم أو تركيبة من المفاهيم التي تهدف الى تشجيع العملاء المحتملين لتمييز سلعة أو سلع يمتاكها شخص عن سلعة أو سلع منافسة.
    - ٧- هو القيمة النقدية للمنتج مقابل المنفعة.
- ٨- هي الطريق الذي يسلكه المنتج الدوائي من المنتج الى المستهلك النهائي أو المستعمل الصناعي من خلال مجموعة من الأجهزة المتخصصة التي إما أن تكون تابعة للمنتج أو مستقلة.
  - ٩- مجموعة العناصر التي مع بعضها البعض لتحقيق الأهداف الترويجية المستهدفة للمنتج الدوائي.
    - ١٠- هو الذي يتركز عمله على توفير طلبيات الأدوية التي تحتاجها الصيدليات.

السؤال الغالبه: ما اسم الاستراتيجية المتبعة في كل حالة مما يلي.

- ا- عندما يتحدد السوق المستهدف بقطاعين أو أكثر من قطاعات السوق.
- عندما يتم استبعاد خطوط منتجات قائمة أو تبسيط بعض التشكيلات داخل خطوط المنتجات واسقاط منتجات غير مربحة والتركيز على المنتجات المربحة فقط.
- عند اضافة خطوط جديدة الى خطوط منتجاتها الحالية التى تختلف استخداملتها عن المنتجات الأخرى ولكن تحت نفس العلامة.
- عندما تهدف الشركة من اتباع هذه الاستراتيجية الى الحصول على حجم كبير من السوق غير المجزأ
   حسب الدخل بحيث تسعى الى الوصول الى السوق الكلية وذلك عن طريق تحديد أسعار منخفضة لسلعها.
  - عندما تحاول توفير السلع في متاجر أو منافذ قليلة ومنتقاة من عدة بدائل ةيتم اختيارها على أساس سمعة الموزع والتزامه بالسعر.

السؤال الرابع: اكتب في الموضوعات التالية:

- ١- مراحل تطوير المنتج الصيدلاني الجديد.
- ٢- سلبيات مهنة مندوبي البيع في شركات الأدوية.

انتهى الامتحان مع أطيب التمنيات بالتوفيق



#### Assiut University-Faculty of Pharmacy Pharmaceutical- Analytical Chemistry Department Pharmaceutical Analysis & Quality Control (PC808) Final Examination-June 18, 2011 Time Allowed: 2 hours



جامعة أسيوط

Part (A), Prof. Dr. Hassan F. Askal	(25 Marks)
[1] Draw and comment on each of the following:	(8 Marks)
1. Deming Management Cycle:	

2. Sampling Operation Scheme

3. Good Manufacturing Practices Chart

[II] Define each of the following 1- Quality assurance	(3 Marks)
2- Quality control	
3- Analytical protocol	
4- Standard operational procedures	
5- Units of analytical control laboratory a- b- c-	
6- Representative sample	
<ul><li>[III] Answer the following questions:</li><li>1- What are the reasons for incorrect analytical results?</li></ul>	(6 Marks) (3 Marks)
b-	
c-	
d-	
e-	
f-	

4. Sample Thieve

2- How can you minimize and correct errors?	(3 Marks)
b-	
c-	
d-	
e-	
f- [IV] Write short notes on each of the following: 1- Characters of containers for bulk sample storage a-	(3.5 Marks)
b-	
c-	
d-	
e-	
f-	
g- 2- Factors to be considered in choosing an analytical method a-	(4.5 Marks)
b-	
c-	
d-	
e-	
f-	
g-	
h- i-	

Part (B), Prof. Dr. Abdel-Maaboud Ismail [V] Define the following terms: 1- Penultimate intermediate	(25 Marks) (3 marks)
2- Pharmaceutical grade chemicals	
3- Stability	
4- Signal impurities	
5- Accuracy	
6- Robustness	
<ul><li>[VI] Limits for impurities in bulk drug substances must consider a factors from which:</li><li>1-</li></ul>	number of (3 marks)
2-	
3-	
4-	
5-	
6-	
<ul><li>[VII] Chemicals can be classified depending on their purity to deffer including:</li><li>1-</li></ul>	erent grades (2 marks)
2-	
3-	
4-	

[VIII] Compare between the following pairs and give your comment (if any) for that comparison: (6 Marks)

Tor that comparison.	/ IVIUIKS)	
Term A	Term B	Comment
Physical stability	Chemical stability	
Ionic strength	Inter-ionic compatibility	
Repeatability	Reproducibility	
Related products	Chiral products	
Primary standards	Pharmacopeial standards	
Synthesis-related impurities	Formulation-related impurities	

[IX] Give reason for each of the following:

2- Sodium metabisulfite (NaHSO<sub>3</sub>) is incompatible with catecholamines in solutions for injection

<sup>1-</sup> Aspirin is inactivated with time in the presence of high humidity

## [X] Complete the following equations:

(5 Marks)

#### Chloramphenicol

$$R_2 \xrightarrow[R_3]{R_1} H \xrightarrow{hv}$$

[XI] SIAMs would be achieved via three different approaches: (3 Marks) 1-

2-

3-

Faculty of Pharmacy End Year Examination Clinical Chemistry

#### Clinical Pharmacy Time allowed: 2 and half hours.

#### MCQ:

#### Choose the correct answer(s):-

(1 mark each.)

- 1- The following cardiac markers are useful in diagnosis of late myocardial infarction:
- a- Troponin T. b- Troponin 1. c- CK-MB. d- Myoglobin.
- e- LDH.
- 2- Monitoring the levels of ketone bodies in urine is
- a- Considered essential on a daily basis for all diabetic patients.
- b- A reliable method of assessing long term glucose control.
- c- Recommended for patients with type I diabetes on sick days.
- d- Not recommended.
- 3-Which of the following results are the most consistent with high risk of coronary heart disease?
- a- 20 mg/dl HDL cholesterol and 250 mg/dl total cholesterol.
- b- 35 mg/dl HDL cholesterol and 200 mg/dl total cholesterol.
- c- 50 mg/dl HDL cholesterol and 190 mg/dl total cholesterol.
- d- 60 mg/dl HDL cholesterol and 170 mg/dl total cholesterol.
- 4- The following enzymes are markedly increased in acute hepatitis:
- a- ALT alone. b- ALT and AST.
- c- ALP d- LDH.
- 5- In Cushing's syndrome the following are elevated
- a- Cortisol. b- ACTH.
- c- Cortisol and ACTH. d- Sodium.
- 6- Which of the following is not matched?
- a- Oxytocin Hypothalamus.
- b- Insulin Pancreas.
- c-Glucagon Pancreas.
- d- Thyroid hormone Pituitary gland.
- 7- Fixed specific gravity of urine around 1010 is observed in:
- a- pyelonephritis b- chronic renal failure.
- c- Diabetes mellitus. d- Liver cirrhosis.
- 8- CSF chloride level is decreased in:
- a- cerebral hemorrhage b- viral meningitis. c- tuberculous meningitis. d- Froin's syndrome.

- 9- Vasoactive intestinal polypeptide (VIP) physiological actions all are true except:
- a- stimulate pancreatic juice secretion
- b- Stimulation of gastric acid and gastrin secretion.
- c- Stimulation of pepsinogen secretion.
- d- Coronary vasodilation.
- 10- Which of the following elements is required for the synthesis of thyroxine?
- a- Iron.b- Sodiumc-Potassium.d- Iodine.

#### Give a short account on:

#### (3 marks each)

- 1- Each adrenal cortex end product by functional layer and list a specific regulator of each.
- 2- The biological actions of PTH
- 3-CRP.
- 4- Laboratory findings in Addison's disease.
- 5- Early diagnosis of myocardial infarction.
- 6- Kidney function tests.
- 7 Causes and laboratory findings of hyperthyroidism.
- 8- SIADH, definition, causes and laboratory findings.
- 9- Causes of increased gastrin secretion,
- 10- Causes of increased prolactin level.

#### Case history:

#### 5 marks each

I - A female, 18 years old was admitted to the hospital. On exam, the following data were obtained

Pulse: 112 min, B.P. 95/60 mmHg, vomiting & drowsiness, cold extremities, deep sighing respiration with acetone smell in her breath

#### Lab. findings:-

Na+	130 mmol/L	(135-145)
K	5.8 mmol/L	(3.5-5)
HCo3-	5 mmol/L	(22-28)
Urea	18 mmol/L	(2-8)

Creatinine 140  $\mu$ mol/L (44-97  $\mu$ mol/L) Glucose 32 mmol/L (<6.1 mmol/L)

Arterial blood

pH: 7.05 = (7.34-7.44)

PCO2: 15 mmHg (35-45 mmHg)

Urine exam: Glucose: ++++ Ketone: ++ pH: 5.5

- -What is your diagnosis?
- -Comment on abnormal data

A 60 year old man presented with interactable headache. MRI was requested to evaluate this complaint and a 2.5 cm pituitary tumor was discovered. In retrospect, he noted an unexplained 20 kg weight loss, cold intolerance, fatigue and loss of sexual desire

- 1- How would approach the evaluation of his anterior pituitary function?
- 2- What additional testing may be required to confirm a loss in anterior pituitary function?

#### PRACICAL EXAM.

1- Give an account on oral glucose tolerance test. Give the levels for fasting and after 2 hours in a diabetic patient.

.....

2- Complete the missing parts:

In the determination of glucose by the hexokinase method,

Glucose +ATP HK,Mg++ G6P + ADP.

G6P + NADP G6PD

- 3- The rate of formation of NADPH is measured at .....
- 4- Give the normal ranges for each of the following:
  - a- Serum corisol. b-CRP. c- serum albumin.
  - d- Serum total bilirubin. e- ALT.
- 5- CSF REPORT:

Aspect : Xanthochromic. Clot: Present.
Chloride : 730 mg/dl. Protein: 1000mg/dl
Sugar: 60 mg/dl Cells 4 lymphocytes/ul.

What is the diagnosis of the case. Mention 5 causes of xanthochromia.

#### **6-URINE REPORT:**

The following findings were found: Albumin: ++. Specific gravity: 1030. RBCs: 40 - 60/hpf.

Pus cells: 15 - 30 /hpf.

Casts: hyaline, red cell, epithelial and granular casts. Volume: 400 ml and smoky.

What is the diagnosis of the case?

Mention the causes of prerenal causes of azotemia.

**GOOD LUCK** 

Assiut University 1/7/2011
Clinical Pharmacy time: 2hs
Microbiology & Immunology department

Antimicrobial chemotherapy 8<sup>th</sup> and 10<sup>th</sup> class

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Give an account on:

- 1- Mechanism of resistance to antibacterial drugs with examples.
- 2- Enumerate the methods used for evaluation of bacteriostatic activity of antibacterial drugs.

(50 marks)

- 3- Mention the role of resident flora in maintenance of health
- 4- Anti-tuberculous drugs.
- 5- Nosocomial infection types ,sources & prevention

#### Choose the correct answer in a table: (5 marks)

- 1- Inhibitors of DNA synthesis include
  - A.penicillins
  - **B.**polymyxins
  - C.quinolones
  - D.chloramphenicol
  - E. cephalosporins
- 2- The antimicrobial action is through inhibition of cell wall synthesis for all of the following drugs EXCEPT
  - A.cephalosporins
  - **B.**penicillins
  - C.cycloserine
  - D.aminoglycosides
  - E.vancomycin.
- 3- Evaluation of bacteriostatic activity of antibiotic can be evaluated by all of the following except:
  - A.Broth dilution method.
  - B.Agar dilution method.
  - C.Ditch plate technique.
  - D.Cup plate technique.
  - E.Phenol coefficient test.
- 4- Microbiological assays antibiotics include all of the following except:
  - A- The agar diffusion assay.
  - B- The serial dilution assay.
  - C- Turbidimetric assay.
  - D- Chick Martin test.
- 5- Acyclovir is characterized by all of the following except:
  - A- It is active against Herpes simplex and Herpes zoster.
  - B- Aciclovir targets virusinfected cells quite specifically.
  - C- The drug is used topically, orally and i.v.
  - D- It produces high toxicity.

### Choose (T) for the correct answer and (F) for the false one in a table: (20 marks)

- 1- One of the advantages of agar dilution method is that many
- 2- Turbedimetric assay is the method of choice for evaluation of drug in blood.
- 3- Rifampicin acts through inhibition of transglycosylase enzyme.
- 4- B lactams links covalently to penicillin-binding proteins to blocks crosslinkage of peptidoglycan.
- 5- Chemotherapy is the use of antimicrobial agents to prevent occurance of infectious diseases.
- 6- Gonorrhea is transmitted by respiratory rout.
- 7- Zidovudine is a potent inhibitor of reverse transcriptase enzyme and is used in treatment of AIDS.
- 8- Ditch plate technique allows a single antibiotic to be tested against multiple microorganisms.
- 9--Cephalosporins are  $\beta$ -lactam antibiotics.
- 10 -Penicillin inhibits peptidoglycan synthesis.
- 11- Bacteriostatic antibiotics kill the bacteria.
- 12- Antibiotics binding to the ribosome interfere with protein synthesis
- 13- Resistance genes usually occur on the bacteriophage.
- 14-R- plasmids are those carrying resistant genes for antibiotics.
- 15-Commensal micro organisms do not cause disease but it may be potentially pathogenic when body resistance decrease.
- 16-. Penicillins, cephalosporins and bacitracin inhibit bacterial cell wall synthesis.
- 18-Sulphonamides are used in infections as a bactericidal drug
- 19- Organic matters always decrease the activity of antimicrobial agents.
- 20- Nosocomial infection is not present upon admission and appears 8 h or more following admission.

Good Luck

# **Answer Sheet**

# Student Number

1	1	3	4	5
6	7	8	9	10
- 11	12	2 13	3 14	15
16	17			
				20
21	22	23	24	25
26	27	7 28	8 29	30
31	32	3.	3 34	35
36	3	7 38	39	40
41	42	43	44	45
. 46	47	48	49	50

## **EXAMINATION OF PHARMACOLOGY II**

Date: 3/6 2012

Time allowed: 2 hours

For each of the followings questions select the most appropriate answer: (1 mark each)

## 1-All are therapeutic uses of morphine except

A-Acute pulmonary edema B- Cerebral edema

C-In anesthesia D-Diarrhea

# 2-All are adverse effects of morphine except

A-Urinary retention B-Sedation and mental clouding

C-Constipation D-Hypertension

## 3-All are contraindications of morphine except

A-Bronchial asthma B-Adrenal insufficiency

C-Hyperthyroidism D-Head injury

# 4- All are therapeutic uses of opioid antagonists exept

A-Treatment of opioid over dose

B -Treatment of addict before withdrawal from opioid

C -Reversal of respiratory depression caused by opioids

D -Diagrrosis of opioid addiction

# 5- All are therapeutic uses of phenytoin except

A-Generalized tonic- clonic seizure
C-Status epilepticus
B- Myoclonic seizure
D- Trigeminal neuralgia

# 6-All are adverse effects of phenytoin except

A-Nystagmus and ataxia B- Edema C-Osteomalacia D- Hirsutism

# 7-All are therapeutic uses ofvalproic acid except

A-Status epilepticus B-Absence seizure

C-Myoc1onic seizure D-Bipolar affective disorder

# 8- Write true T or false F for the following statement

Carbamazepine is not used in bipolar affective disorder

### 9-All the followings are therapeutic uses of chlorpromazine except

A-Schizophrenia B- Parkinsonism

C-Hiccough D-Bipolar affective disorder

## 10-All are adverse effects of antipsychotics except

A-Weight gain
C-Parkinsonism
B-Hypoprolactinemia
D- Tardive dyskinesia

## 11-Write true T or false F for the following statement

-Neuroleptic malignant syndrome is treated by dantrolene and bromocriptine.

# 12- All are therapeutic uses of tricyclic antidepressants except

A- Depression B-Mania C-Panic disorder D-Enuresis

# 13- All are therapeutic uses of selective serotonin reuptake inhibitors except

A-Major depression B-Serotonin syndrome

C-Obsessive compulsive disorder D-Bulimia nervosa

## I4-All the followings are therapeutic uses of corticostcroids except

A-Adrenal insufficiency B- Ulcerative colitis

C- Shock D- Diabetes

## 15-All the followings are therapeutic uses of corticosteroids except

A-Bronchial asthma B-Conjunctivitis C-Rheumatoid arthritis D-Osteoporosis

# 16-All the followings are adverse effects of corticosteroids except

A-Adrenal suppression B-Cushing syndrome C-Hypotension D-Hyperglycemia

# 17-All the followings are adverse effects of insulin except

A-Anorexia B-lipodystrophy

C-Insulin edema D-Formation of antibodies

## 18-All the followings are uses of insulin except

A- Type 1 diabetes B-Diabetic ketoacidosis

C-Postpancreatectomy D-Postoperative management of diabetes

# 19-All the following are effects of sulfonylureas except

A-Stimulation of insulin release

B-Reduce glucagon release

C-Increase number of insulin receptors

D-Opening of ATP sensitive K<sup>+</sup> channels

# 20-All the following are effects of rosiglitazone except

A-Increase tissue sensitivity to insulin

B-Increase glucose uptake in muscle

C-Inhibition of hepatic gluconeogenesis

D-Inhibition of peroxisome proliferator activated receptors gamma

# 21-All are uses of levothyroxine except

A-Myxedema coma B-Cretinism

C-Before thyroidectomy D- TSH suppression

# 22- All are uses of thioamides except

A-Gravis disease B-Preoperative for thyroidectolny

C- Before treatment with radioactive iodine

D-lupus erythromatosus

# 23- True (T) or False (F)

-Mecasermin is used in acromegaly

# 24 -Concerning oral contraceptives all the following statements are true except

A-Estrogen inhibits release of LH and FSH

B-Progestin inhibits LH release

C-Contraceptives enhance implantation

D-Progestin thickens the cervical mucous

### 25- True or false

- Heparin induces thrombocytopenia

# 26-Aspirin is contraindicated in gout if used in:

A-Small dose B-large doses
C- More than 5gm/day D- Both Band C

# 27-0ne of the followings is incorrect regarding paracetamol:

A-It inhibits prostaglandin centrally

B- It is mainly used as antipyretic analgesic drug

C- lt does not cause gastric irritation as that produced ibuprofen.

D-Its hepatotoxicity is mainly treated by sulfhydryl containing compounds like n-acetylsalicylic acid

# 28-0ne of the followings is correct regarding NMDA receptors:

A- They are linked to ion channels

B- They are inhibitory receptors

C-NMDA antagonists are described as neurotoxicity drugs

D- They are target for GABA.

# 29- Regarding omeprazole, all the followings statements are true <u>except</u>

A-It blocks hydrogen / potassium adenosine triphosphate enzyme system B- It is readily absorbed from intestine

C-It may lead to hip fracture on prolonged use

D-It is contraindicated in hypersecretory conditions as Zollinger Ellison syndrome

# 30-Regarding zafirlukast, all the followings statements are true except

A-It is leukotriene antagonist

B-It is useds prophylactic in bronchial asthma

C- It is lipoxygenase inhibitors that stimulating LTB4 production

D- It may elevate aminotransferase liver enzymes

# 31 Regarding sulfonamides all the followings are true except

A-They have common chemical nucleus resembling P- amino benzoic acid

B- They are competitive inhibitors of dihydropteroate synthase enzyme C-They are acetylated in liver.

D- It is metabolized mainly to active metabolites

# 32-Regarding aminoglycosides, all the followings are true except

A-They are bactericidal antibiotics

B- They inhibit cell wall synthesis

C-They are very poorly absorbed from GIT

D- They may lead to ototoxicity and nephrotoxicity

# 33-Regarding amphotericin B all the follo'Ying statements are true except

A-It binds to ergosterol of bacterial cell membrane forming pores that increase membrane permeability

B-It is poorly absorbed from GIT

C-It is used in systemic fungal infection

# D-It may lead to nephrotoxicity

# 34-One of the following is considered cell cycle non-specific anticancer

A -6 Mercaptopurine B- Methotrexate

C- Vincristine D-Antitumour antibiotics as bleomycin

# 35- The followings anti-inflammatory are nonsteroidal except

A-Piroxicam B-Dic1ofenac C-Prednisone D- Ibuprofen

### 36-Flumazenil is antidote of:

A-Morphine B-Insulin C- Diazepam D- Pimozide

# 37-Buspirone is

A-Antidepressant drug

C-Antipsychotic drug

D-Antispasmodic drug

# 38-This drug acts through stimulation of GANBA receptors

A- Vigabatrin B-Gabapentin C- Valproate D- Diazepam

# 39-Benzodiazepines are used in all the followings cases except

A-Sleep disorders B-Alzheilner C-Seizures D-Anxiety

# 40- This drug is lipoxygenase inhibitor:

A- Ketoprofen B- Sodium cromoglycate

C- Zileuton D- Beclomethasone

# 41-One of the following is correct regarding aspirin

A-It exhibits antipyretic effect in all dose levels

B- It decreases prostaglandin synthesis

C-It is effective in treatment of slow to moderate intensity pain but not visceral pain

D-It inhibits platelet production of TXA<sub>2</sub>

# 42-Regarding the inhibition of cyclo-oxygenases, all the following statements are true except

A-Their inhibition lead to inhibition of prostaglandin production

B-Indomethacin is considered as non selective COX inhibitor

C-Meloxicam inhibits COX -1 up to 50 times more than COX -2

D-Celecoxib is considered as selective COX -2 inhibitors

## 43-Write true (T) or false (F)

-Aspartate is considered as excitatory neurotransmitter

# 44- Write true (T) or false (F)

-Buspirone is considered as 5-HT I A antagonist

# 45- Write true (T) or false (F)

-In patients with chronic obstructive pulmonary disease benzodiazepines lead to respiratory acidosis

# 46- Write true (T) or false (F)

-Zolpidem exhibits anxiolytic non hypnotic effect

# 47-Write true (T) or false (F)

-Indomethacin is considered as selective COX -1 inhibitor

# 48- Write true (T) or false (F)

-Aspirin inhibits prostaglandin synthesis that increase gastric acidity

# 49- Write true (T) or false (F)

-Administration of NSAIDS might weakened the effectiveness of ACE inhibitors

## 50-All the following are therapeutic uses of diazepam except

A-Anxiety B-Preanaesthetic medication C-Anticonvulsant D- Respiratory stimulant

# **GOOD LUCK**



ASSIUT UNIVERSITY FACULTY OF PHARMACY PHARM. ANAL. CHEM. DEPT. Clinical Pharmacy
Fourth Year
Quality control and pharmaceutical
analysis
FINAL EXAM
JUN 7, 2012

TIME ALLOWED: 2 HOURS

# Mark $[\sqrt{\ }]$ for the correct statement and [x] for the wrong one, underline the wrong words or sentences and then correct it. (11 marks)

The statement	Mark	Correction
1. Samples should never be returned to the bulk.		
2. Sampling tools should be made of active materials, avoid		
glass		
3. Disposable sampling materials cannot be used for		
sampling.		
4. Samples from liquid preparations can be classified as		
heterogenous materials		
5. Sample collection form is written record of the sampling		
operations, always kept together with the collected form.		
6. Good man,ufacture practice is concerned with production		
only.		
7. ISO have been released guidelines for sampling of		
pharmaceutical products.		
8. Representative samples must be taken in very small		
quantity.		
9. Karl-Fischer titration method is used for the determination		
of acids in the compounds in physico-chemical		
investigation unit		
10. Composite sample consists of two or more portions of		
material collected at different time selected to represent the		
material being investigated.		
11. Indomethacin undergo photodegradation in its solid form		

II Complete the following sentences with the missing word(s) (19 marks)	
1 is collected as part of the original sampling process and	
reserved for future testing and its size should be sufficient to allow for at least two	
confirmatory analyses.	
2- p-Aminosalicylic acid undergo degradation by, to form	
form and carbon dioxide	
3- Quality can be defined as a product or service free of and quality	
control can be defined as of defects, while quality assurance can be	
defined asof defects.	
4- Deming Cycle is an iterative	
Quality is concerned with sampling, specifications,. testing,	
organization, documentation & release, and it is a part of quality	
5- Sample is aportion selected from the bulk.	
6-The samples can be classified according to the sampling plan into 4 types:	
7- Quality control units are	
8is the written record (documentation) of the sampling	
operations and always kept together with the collected sample.	
9-The systematic errors can be minimized by	
10- Types of documents for quality assurance are	
11- The analytical method is considered precise if the RSD% is	

12- If the calculated Q-value is the suspected
observation can be rejected.
13- The value of (r) must lies between and which
indicates
14- Ruggedness is while, Robustness
is
LOD is
while, LOQ is
15- Factors influence the choice of an analytical method
16- Specificity iswhile selectivity
is
17- L-epinephrine istimes more active than its d-form while the activity of the
racemic mixture is that of the L-form.
III A- Analysis of sample of iron gave the following results; 11.3, 11.1. 11.0, 10.2. 11.2.
10.9, 11.0 μg/g. One value appears suspicious. Determine if it should be rejected or not
(Tabulated $Q_{95\%} = 0.568$ ) (4 marks)

III B - A Calibration data for a chromatographic determination of vitamin K1 in a mixture of water soluble vitamins are shown in the following table:

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

Determine by the least square method the equation of the best straight line for the calibration curve (4 marks)

## IV- Write short notes on:

(12 marks)

1- The objectives of quality control

2- Stability indicating assay of Aspirin with equations, mention its type.

3- Degradation of Tetracycline by two ways.

4- Reasons for incorrect analytical results

5- Factors affecting the limits of impurity levels in drug substances
6- Different reactions affect the chemical stability of the drug products (discuss one in details)
details)
انتهت الأسئلة
عدد صفحات الامتحان ٦ صفحات
الشفوى يبدأ بعد النظرى مباشرة
With best wishes
Prof. Niveen A. Mohamed
Dr. Noha N. Atia

Assiut University Faculty of Pharmacy Department of Pharmaceutics Clinical Students (Class 6&8) Final cosmetics preparation examination Instructors: Dr. Fawzia Habib Dr.Fergany Total grade (75 marks) Time allowed: 2 hours Date: Monday 9/6/2012

(Elective course)

All questions should be answered  Part I (35 Marks)  Prof. Dr. Fawzia Habib	35
A) Modern shampoo must : (5 marks)	
1	
2	
3	
4	
5	
B) Surfactants are main ingredients in shampoo formulations, what are the	
requirements? (5 Marks)	
1	
2	
3	
4	
5	
C) With examples (if possible), mention the active ingredients that may be contained in shampoo composition. (5 Marks).	
1	
2	
3	
4	
5	
D) Among the desirable properties of face powder is to have a good coverin Mention TWO substances with reference to their advantages and diadvatage (5	
1	
1	
2	

responsible for achieving this property?	(5 Marks).
1e.g	
2e.g	
3e.g	
4e.g	
F) Exposure to sunlight can be harmful adverse effect on hum of them.	nan body. Mention ONE (3 Marks)
1	
ab	
G) Mention some properties of sun screen preparations.	
2	
3	
4	
H) The efficacy of sun screen preparations depends on:	, ,
2	
2	

# Part II (40 Marks) Prof. Dr. Fergany A Mohammed



# A) Put (T) for the True statement and (F) for the False one (Write your answer in the table) (20Marks)

- 1- Many typical cosmetic ingredients are identical to the components used in the Rx and OTC drugs.
- 2- Important regulations set forth specific GMP requirements for cosmetics.
- 3- FDA maintains the obligatory Cosmetic Registration Program.
- 4- A cosmetic product must be labeled according to cosmetic labeling regulations which are different from drugs labeling regulations.
- 5- Mouth washes considered deodorant preparations.
- 6- Body and baby powders are considered protective preparations.
- 7- Most emulsified cleansing creams can be considered as vanishing creams.
- 8- The cleansing power of a cream is related to its mineral oil content.
- 9- Liquid petrolatum is a good solvent for the oils and greases
- 10- Stearyl alcohol, in a proportion of about 1 % acts as emollient and as an emulsion stabilizer.
- 11- Cleansing lotions create stability problems, but they are less difficult to manufacture than cleansing creams.
- 12- Triethanolamine is usually utilized in lather creams.
- 13- Hexachlorophene has been added by some manufactures for its contribution as a stabilizing agent.
- 14- For preoperative and/or postoperative dental sedation, the barbiturates are desired.
- 15- Triethanolamine will often discolor with age and, upon hydrolysis, can produce HCl
- 16- The ease of lathering depends on the type of the soaps.
- 17- Sodium soaps in general are more soluble than the corresponding Potassium soaps.
- 18- (Potassium soaps alone are usually softer, and a certain proportion of sodium soap must be present to give body to the mixture.
- 19-A lather-type shaving cream contains ingredients similar to those of the bar shaving, soap.
- 20- Brushless shaving creams are oil-in-water emulsions of the vanishing cream type.

#### Write your answer in the table

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

# **B)** Complete the Following (20 Marks)

a- The properties required for a good cleansing cream are:
1
2
3
4
b- The shaving lather must bein texture and reasonably –
c- Shaving Stick composed of (write the formula):
2
3
4
5
J
d- Halitosis is characterized by It is highly prevalent and is a source ofto many. Halitosis is commonly a symptom of

# GOOD LUCK

Faculty of Pharmacy End Year Examination Clinical Chemistry 2012

### Clinical Pharmacy Time allowed: 2 and half hours.

### MCQ:

#### Choose the correct answer(s):-

(1 mark each.)

- 1- The following cardiac markers are useful in diagnosis of late myocardial infarction:
  - a- Troponin T.

b- Troponin 1.

c- CK-MB.

d- Myoglobin.

e- LDH.

- 2- Select the coupling enzyme used in the hexokinase method for glucose:
  - a. Glucose dehydrogenase.
  - b. Glucose-6- phosphatase.
  - c. Glucose-6- phosphate dehydrogenase
  - d. Peroxidase.
- 3-Which of the following results are the most consistent with high risk of coronary heart disease?
  - a- 20 mg/dl HDL cholesterol and 250 mg/dl total cholesterol.
  - b- 35 mg/dl HDL cholesterol and 200 mg/dl total cholesterol.
  - c- 50 mg/dl HDL cholesterol and 190 mg/dl total cholesterol.
  - d- 60 mg/dl HDL cholesterol and 170 mg/dl total cholesterol.
- 4- The following enzymes are markedly increased in acute hepatitis:

a- ALT alone.

b- ALT and AST.

c- ALP

d- LDH.

- 5- In Cushing's syndrome the following are elevated
  - a- Cortisol.

b- ACTH.

c- Cortisol and ACTH.

d- Sodium.

- 6- Vasoactive intestinal polypeptide (VIP) physiological actions all are true except:
  - a- stimulate pancreatic juice secretion
  - b- Stimulation of gastric acid and gastrin secretion.
  - c- Stimulation of pepsinogen secretion.
  - d- Coronary vasodilation.

- 7- Which of the following elements is required for the synthesis of thyroxine?
  - a- Iron.

- b- Sodium
- c-Potassium.
- d- Iodine.
- 8- Thyrotropin releasing hormone (TRH) stimulates the secretion of:
  - a. Prolactin
  - b. Growth hormone
  - c. Thyroid stimulating hormone
  - d. Both a & c
- 9- CSF chloride level is decreased in:
  - a- cerebral hemorrhage

b- viral meningitis.

c- T. B. meningitis.

d- Froin's syndrome.

- 10- Which of the following is not a hormone of the GI system:
  - a. Gastrin
  - b. Cholecystokinin
  - c. Intrinsic factor
  - d. Secretin

### Give a short account on:

(3 marks each)

- 1- Each adrenal cortex end product by functional layer and list a specific regulator of each.
- 2- C-reactive protein.
- 3- Laboratory findings in diabetic ketoacidosis.
- 4 Causes and laboratory findings of osteoporosis.
- 5- Laboratory findings in Addison's disease.
- 6- Causes of increased protein in CSF.
- 7- Kidney function tests (enumeration).
- 8- Types and laboratory findings of hypothyroidism.
- 9- SIADH, definition, causes and laboratory findings.
- 10- Causes of increased prolactin level.

## Case history:

1- A 50 years old female complaining of ure teric colic and constipation. Radiological examination showed ure teric calculi.

Laboratory findings:

Serum calcium = 12 mg/dl (8.5 - 12 mg/dl)

10.5) Serum phosphorus = 1.8 mg/dl

(2.7 - 4.5).

Total C02 = 19 mmol/ 1 (22 - 29).

PTH (intact) = 150 ng/l (10 - 65).

Blood urea, albumin and alkaline phosphatase are normal.

- 1- What is your diagnosis?
- 2- Comment on the abnormal findings.
- 3 What are other laboratory findings in this case?
- **11 -** A 34 year old man was admitted for diagnostic evaluation with the complaint of epigastric pain of 2 years' duration, which was variously described as burning. He had been diagnosed with a duodenal peptic ulcer 18 months ago; at that time, therapy with antacids and dietary revision provided considerable alleviation of symptoms. More recently, the pain had become more persistent and awakened the patient 4-6 times each night. Radiologic studies revealed a 2.5 cm ulcer crater in the first protion of the duodenum and a 0.5 cm ulcer in the antrum of the stomach. Gastric analysis revealed 640 ml of secretion in the basal hour, with an acid output 38 mEq, and 780 ml of secretion in the I-hour pentagastrin stimulation test, with acid output of 84 mEq.
- What is the probable disease?
- What other tests would be diagnostic for this disease?

# PRACICAL·EXAM.

- 1- Give an account on the conditions needed to collect sample for the assay of lipid profile. Give the normal levels of cholesterol, triglycerides, HDL- cholesterol and LDL- cholesterol.
- 2- Complete the missing parts:

In the determination of glucose by the hexokinase method, Glucose +ATP HK,Mg++ G6P + ADP.

G6P + NADP G6PD ...............

- 3- The rate of formation of NADPH is measured at ......
- 4- Give the normal ranges for each of the following:
  - **a-** Serum coriso!. b-Fasting blood glucose.
    - . c-Serum albumin. d- Serum total bilirubin.

c- ALT.

### 5- CSF REPORT:

Aspect: Xanthochromic. Clot: Present.

Chloride: 730 mg/dl. Protein: 1000mg/dl

Sugar : 60 mg/dl Cells: 4 lymphocytes/ul.

- What is the diagnosis of the case? Mention 5 causes of xanthochromia.

### 6-UR1NE REPORT:

The following findings were found: Albumin: ++.

Specific gravity: 1030. RBCs: 40 - 60/HPF.

Pus cells: 15- 30 /hpf.

Casts: hyaline, red cell, epithelial and granular casts.

Volume: 400 ml and smoky.

What is the diagnosis of the case?

Mention the causes of prerenal azotemia.

**GOOD LUCK** 

# Assiut University Faculty of Medicine Department of Pharmacology

# Drug interactions Examination For Clinical Pharmacy Students

Time allowed: Two hours 18 June, 2012

Multidrug therapy is a double-edged sword. Decide whether each of the following drug combinations is recommended or not and explain the pharmacological rationale behind your decision:

- 1- Estrogen and ampicillin
- 2- Theophylline and diltazem
- 3- Metformin and statins
- 4- Sotalol and thiazide diuretics
- 5- Dopamine and monamine oxidase inhibitors(MAOI<sub>s</sub>)
- 6~ Penicillins with gentamycin in cases of enterococcal endocarditis
- 7 Administration of digoxin following erythromycin
- 8- A patient on oral anticoagulant starts therapy with cefanlandole
- 9- A patient on receive oral ranitidine and ketoconazole
- 10- An epileptic case on phenytoin starts treatment with INH
- N.B. Each question equal 7.5 Marks

GOOD LUCK

### كُلِية الصيدلة — جامعة أسيوط

<u>لجنة الممتحنين:</u> ۱- د. نادية أمين محمد ۲- د. أحمد سيد سباعى الصيدلة الاكلينيكية الفرقة: الرابع فصل: ٨ امتحان دور يونيو ٢٠١٢ المادة:التسويق الدوائي عدد الصفحات: ٢ زمن الامتحان: ساعة واحدة التاريخ: ٢٠١٢/٦/٢١

### أجبم الأسئلة التالية:

السؤال الأول: ناقش مدى صحة العبارات التالية (مع التعليق):

- ١- التسويق الدوائي موجها فقط للمرضى.
- ٢- لا يمثل المنافسون الذين يعملون في نفس المجال تهديدا مباشرا للمنظمة.
  - ٣- للأدوية تسمية واحدة.
- ٤- ان اختيار المزيج الترويجي الملائم يتحدد من قبل مستهلكي أو مشترى الدواء.

## السؤال الغادي: أذكر المصطلح العلمي للمفاهيم التالية: (٢٥ درجة)

- ١- هو العملية التي يتم خلالها بلوغ سوق الرعاية الصيدلانية.
- ٢- هو أى مادة أو خليط من المواد ؛ يتم تصنيعها كدواء فى شكل صيدلى ، سواء للاستعمال الأدمى أو
   البيطرى ، وتخضع لرقابة التشريعات والقوانين الصحية للبلاد.
  - ٣- هي تركيبات كيميائية تستعمل للوقاية وكذا التجميل، التنظيف، ولها نفس مصدر الأدوية.
    - ٤- مجموع العناصر التي تكون جزء من المنتج والتي تباع معه من أجل حفظ محتوياته.
- ٥- اسم أو تعبير أو إشارة أو رمز أو تصميم أو تركيبة من المفاهيم التي تهدف الى تشجيع العملاء
   المحتملين لتمييز سلعة أو سلع يمتلكها شخص عن سلعة أو سلع منافسة.
- ٦- هو التعبير النقدي لقيمة السلعة في وقت ومكان معين و هو العنصر الوحيد من المزيج التسويقي الذي بمثل ابر ادات المنشأة.
- ٧- هى الطريق الذى تسلكه السلعة من المنتج الى المستهلك النهائى أو المستعمل الصناعى من خلال مجموعة من الأجهزة المتخصصة التي إما أن تكون تابعة للمنتج أو مستقلة.
- ٨- مجموعة الجهود الترويجية التي تسعى لتعريف جمهور الأطباء واقناعهم بأنواع المنتجات الدوائية
   ودفعهم لوصفها لمرضاهم..
  - ٩- هو الذي يتعامل مع الأطباء لإقناعهم باستخدام أدوية شركته دون الشركات الأخرى.
    - ١٠- هو الذي يتركز عمله على توفير طلبيات الأدوية التي تحتاجها الصيدليات.

### السؤال الثالث : ما اسم الاستراتيجية المتبعة في كل حالة مما يلي. (٢٥ درجة)

- ١- يتعامل المسوق في تلك الاستراتيجية مع السوق الكلى ككتلة واحدة أو كقطاع واحد.
  - ٢- يحدد السوق المستهدف للمنظمة بقطاع سوقى واحد.
- ٣- تبنى مايسمى بأساليب التسويق الهجومى مثل التخفيضات الملموسة فى الأسعار أو الإعلان المكثف أو
   أساليب تنشيط المبيعات غير التقليدية.
- ٤- تبحث المؤسسة عن رفع مبيعاتها بدخول منتجاتها الحالية لأسواق جديدة ، تستطيع توسيع أسواقها
   محليا أو وطنيا أو دوليا.
- استبعاد خطوط منتجات قائمة أو تبسيط بعض التشكيلات داخل خطوط المنتجات بهدف التبسيط فى
   خط المنتجات وإسقاط منتجات غير مربحة والتركيز على المنتجات المربحة فقط.
  - ٦- تطوير أو تغيير بعض الصفات للمنتجات القائمة مع ابقاء عدد المنتجات ثابت.
- ٧- تهدف الشركة من اتباع هذه الاستراتيجية الى الحصول على حجم كبير من السوق غير المجزأ حسب
   الدخل بحيث تسعى الى الوصول الى السوق الكلية وذلك عن طريق تحديد أسعار منخفضة لسلعها.
  - ٨- يقوم المنتج باختيار موزع وحيد أو عدد محدود من الوسطاء للتعامل مع السلعة في منطقة معينة.
- ٩- يحاول المنتج تحقيق أكبر قدر من تغطية السوق ولذا فأنه يتعامل مع أكبر عدد ممكن من تجار التجزئة والجملة في كل منطقة.
- ١- تتبع هذه الاستراتيجية في السوق المتباينة حسب فنات الدخل ، ويتم تحديد سعر مرتفع للسلعة الجديدة بحيث يوجه هذا السعر الى الفئة الأولى في السوق والتي يهمها الحصول على السلعة مهما كان السعر مرتفعا.

السؤال الواوج: اكتب في الموضوعات التالية:

- ١- خصائص المنتجات الصيدلانية.
- ٢- أهمية الترويج بالنسبة للمنتج الدوائي.

# انتمى الامتدان مع أطيب التمنيات والتوفيق

ASSIUT UNIVERSITY – FACULTY OF PHARMACY – DEPT. OF PHARMACEUTICS CLINICAL PHARMACY PROGRAM – LEVEL 8

# ( Read the Queations carfully) ( All questions should be attempted)

Queation 1 (25 marks)	
Give definitions for:     A. Anaemia (according to WHO):	(4 points)
B. Parenteral Nutrition:	
<ol> <li>Give TWO examples for each of the following:</li> <li>A. <u>Causes</u> of iron deficiency anaemia among adult males.</li> </ol>	(4 points)
B. Advantages of enteral nutrition over parenteral nutrition	n.
C. <u>Disadvantages</u> of gastrostomy.	

D. <u>Factors</u> that increase the risk of phlebitis on administration of parenteral nutrition
2. Complete the followings:
3. Complete the followings: (5 points)
A. Birth take place beforeweeks of gestation are technically "premature".
B. The main symptoms of respiratory distress syndrome (RDS) in neonates are:
1
C. In the treatment of elderly patients, some factors may impair counseling adherence of the patients to their medicines such as:
i
D. The primary prevention of stroke in elderly includes the control of risk factors such as:
20

ii
4. Give the reason(s) for: (4 points)
A. Metronidazole having elimination half-life of over 20 hours in term babies, while is up to 109 hours in preterm babies.
B. The incidence of medication errors occurring in children is significantly greater than in adults.
C. Many medicine granted a product license for adult use have not been scrutinized by the licensing authorities for use in children.
D. The clinical effects of some drugs such as the hypotensive effect of nifedipine, may be significantly enhanced in the elderly.
5. Indicate whether each of the following statements is true ( $$ ) or false (X) and justify your answer: (8 points)

( ) A. Enteral drug absorption is erratic in any newborn, therefore most drugs are given intravenously to ensure maximum bioavailability.	
( ) B. Drug metabolism is affected by the physiological hyperbilirubinaemia of the newborn.	
( ) C. In the treatment of venous ulcers, in elderly patients, antiseptics should not be used when there is granulation tissue.	
( ) D. Gentamicin and vancomycin must be administered far less frequently to neonates than in children or adults and plasma drug levels must be assayed.	

Queation 2 (25 marks)

I. Write short notes on each of the following:	(5 marks)
1. The fertile window.	
2. Etiology of menorrhagia.	
3. Ovarian changes in post-menopausal age.	
4. Management options of menopause	

5. Nausea and vomiting in pregnancy.

II. Choose the most appropriate choice the following statements: (4 marks)								
1. The following reasons are invo	lved	l in the eti	ology of P	MS EXC	EPT:			
A. Progestrone/estradiol imbalaque	В.	Increased p						
C. IrlCl"eased pmduction ofserotnnin	D.	Increa	ased produc	ction of pro	lactin			
2 Irong the commistant wish	la a	:+ aan aan		nina aut ha				
2 keeps the corpus luteum viab A. Luteinizing hormone		Follicular s			rmones			
C. Chorionic gonadotrophin		Prolactin	stimalating	поттопе				
e. e								
3. The following are symptoms of								
A. Urinary incontinence		Dysmenor	rhea ami IF	I:h'ie pain				
C. Dyspareunia	D.	Infertility						
4. Which of the following shows p	nor	oral bioay	vailahility	, 9				
A. Progesterone		Mydroxyp						
C. Dydrogestrone		D. Levonorgestrel						
5. The following drugs are useful in tro				iptoms <u>EXC</u>	CEPT:			
A. Gabapentin C. Gestrinone		B. Raloxifene						
C. Gestrinone	υ.	D. Teriparatide						
6. Pregnancy causes the following	EXC	EPT:						
A. decrease insulin production		Increased 1	need of inst	ılin				
•		D. Raising renal glucose						
			_					
7. The following are known terat			<u>'T:</u>					
A. Isotretinoin		B. Lithium D. Phenobarbital						
C. Warhlrin	ν.	Pnenobarb	ıtaı					
8. Etiology of pregnancy-induced hy	perto	ension incl	ıde the foll	lowing EXC	CEPT:			
A. Altered sensitivity to angiotensin II								
C. Overproduction of prostacyclin		Genetic ca						
Answer Sheet								
1 2 3 4		5	6	7	8			

III. Define the following terms:

1. Eumenorrhea.
2. Preeclampsia.
3. Hyperemesis gravidarum.
4. Premenstrual dysphoric disorder
5. Adenomyosis
6. Perimenopausal women.
7. Oligomenorrhea.
8. Neonatal death.
9. Melasma.
10. Retrograde menstruation.

# IV. Denote (T) for the true statements and (F) for the false ones and correct them: (6 marks)

1	Endometriosis is a major cause of infertility.	(	)
2	Women with endometriosis have an increased risk for development of ovarian cancers.	(	)
3	Hysterectomy is the traditional surgical treatment of menorrhagia.	(	)
4		(	)
5	Menstrual cramps are caused by the uterine contractions that occur in response to prostaglandins and other chemicals such as vasopressin.	(	)
6	HCG can be detected as early as 7 days after fertilization.	(	)
7	Natural estrogens are less potent than synthetic ones.	(	)
8	Alendronate is a human parathyroid hormone which stimulates new bone formation and increase resistance to fracture.	(	)
9	Pregnancy test becomes negative 1 week after delivery and 2 weeks after abortion.	(	)
10	A woman who has 2 living children born as preterm twins in her first pregnancy would be designated as: TPAL 0-1-0-2.	(	)
11	Regarding Class C drugs, no animal studies have been conducted and there are no adequate and well-controlled studies in pregnant women.	(	)
12	Penicillins and cephalosporins are agents of choice as anti-infective agents in pregnant women.	(	)

#### V. Compelet the following table:

(5 marks)

Drug	Class/Use
<u>Spironolactone</u>	
Ethinyl estradiol	
<u>Seligiline</u>	
<u>Donepezil</u>	
<u>Tibolone</u>	
<u>Nafarelin</u>	
Celecoxib	
Tranexamic acid	
<u>Paroxetine</u>	
<u>Danazole</u>	

#### 

الامتدان الشفهى لجميع الطلاب سوف يعقد بمشيئة الله تعالى اليوم عقب الامتدان النظرى مباشرة بقسه الصيدلانيات



#### كلية السيدلة - جامعة أسيوك

لجنة الممتحنين: ۱- د. نادية أمين محمد ۲- د. أحمد سيد سياعي الصيدلة الأكلينيكية الفرقة: الرابعة (فصل ^) امتحان دور يونيو٣٠١ ٢٠ المادة: التسويق الدوائى عدد الصفحات: ٢ زمن الامتحان: ساعة واحدة التاريخ: ٢٠ /٦/ ٢٠١٣

#### أجبم الأصئلة التالية ،

(۱۵ درجة)

المؤال الأول. ناقش مدى صحة العبارات التالية (مع التعليق):

- ١ . يعمل مسوقو الدواء في معزل عن البيئة التي يعيشون فيها.
- ٧- إن السوق الصيدلاني ينفرد و يتميز عن غيره من الأسواق في عدة خصائص مهمة.
  - ٣- إن عملية التغليف في المنتجات الصيدلانية ليست كأي عملية تغليف أخرى.

(۳۰ درجة)

السؤال الثاني، اذكر المصطلح العلمي للمفاهيم التالية:

١- هو العملية التي يتم من خلالها بلوغ سوق الرعاية الصيدلانية.

- ٧- هي القوى الفاعلة داخل وخارج المنظمة التي تؤثر على قدرة إدارة التسويق لإجراء التبادلات مع المستهلكين.
- ٣- تشمل هذه الفنة الأطباء و الصيادلة و الأطباء البيطريين و الممرضات، و هؤلاء يمثلون اهمية خاصة لشركات صناعة الدواء لأنهم يمثلون المستهلك أو العميل الداخلي.
- ٤- هو أي مادة أو خليط من المواد ؛ يتم تصنيعها كدواء في شكل صيدلي ، سواء للاستعمال الآدمي أو البيطري ، و تخضع لرقابة التشريعات و القوانين الصحية للبلاد .
  - ٥- " مادة تستعمل في تغيير أو معالجة الأنظمة الفيسيولوجية الخاصة بالمريض".
  - ٦- هي تركيبات كيميائية تستعمل للوقاية و كذا التجميل، التنظيف، و لها نفس مصدر الأدوية.
  - ٧- هو عبارة عن مجموعة من المنتجات التي تقدمها المؤسسة والتي يرتبط كل منها بالآخر.
    - المزايا الأساسية التي يبحث عنها المشتري والتي تسمح بإشباع حاجاته.
    - ٩- مجموع العناصر التي تكون جزء من المنتج و التي تباع معه من أجل حفظ محتوياته.
- ١٠ عملية وضع أهم البيانات والمعلومات على أو داخل المنتج وهي مهمة لإظهار كيفية استعمال المنتج وفاعليته بالإضافة إلى المضاعفات الناتجة عن استعماله.
- 1.۱ اسم او تعبير أو إشارة أو رمز أو تصميم أو تركيبة من المفاهيم التي تهدف إلى تشجيع العملاء المحتملين لتمييز سلعة أو سلع بمتلكها شخص عن سلعة أو سلع منافسة.
- ١٢ هو التعبير النقدي لقيمة السلعة في وقت ومكان معين وهو العنصر الوحيد من المزيج التسويقي الذي يمثل إيرادات المنشأة.
- ١٣- عملية نقل المنتجات الدوائية من اماكن الانتاج إلى اماكن الاستهلاك في الوقت والمكان المناسبين .
- ١٤ مجموعة الجهود الترويجية التي تسعى لتعريف جمهور الأطباء وإقناعهم بأنواع المنتجات الدوانية ودفعهم لوصفها لمرضاهم.

١٥- هو الذي يتركز عمله على توفير طلبيات الأدوية التي تحتاجها الصيدليات.

#### السؤال الثاليم، ما اسم الاستراتيجية المتبعة في كل حالة مما يلي: (٣٠ درجة)

- ١- يتعامل المسوق في تلك الاستراتيجية مع السوق الكلى ككتلة واحدة أو كقطاع واحد.
  - ٢- يُحدد السوق المستهدف للمنظمة بقطاعٌ سوقى واحد.
  - ٣- يتحدد السوق المستهدف بقطاعين أو أكثر من قطاعات السوق.
- ٤- تبني ما يسمى بأساليب التسويق الهجومي مثل التخفيضات الملموسة في الأسعار أو الإعلان المكثف أو أساليب تنشيط المبيعات غير التقليدية.
- د. تبحث المؤسسة عن رفع مبيعاتها بدخول منتجاتها الحالية لأسواق جديدة، تستطيع توسيع أسواقها محليا أو وطنيا أو دوليا.
  - ٣- التخلى عن بعض المنتجات التي أصبحت في طريق الزوال وليس لها إي مرودية.
- ٧- تحاول المنظمة أن تميز منتجاتها عن منتجات أخرى من نفس النوع، وتطوير العمق بإضافة
  منتجات جديدة على خط المنتجات أي يزيد عدد المنتجات و لكن لا تتخلى عن ما هو موجود من
  منتجات سابقا.
- ٨- إضافة خطوط جديدة إلى خطوط منتجاتها الحالية التي تختلف استخداماتها عن المنتجات الأخرى
   و لكن تحت نفس العلامة.
  - ٩- تطوير أو تغيير بعض الصفات للمنتجات القائمة مع إبقاء عدد المنتجات ثابت.
  - ١٠ استبعاد خطوط منتجات قائمة أو تبسيط بعض التشكيلات داخل خطوط المنتجات بهدف التبسيط في خط المنتجات وإسقاط منتجات غير مربحة و التركيز على المنتجات المربحة فقط.
  - ١١ تتبع هذه الإستراتيجية في السوق المتباينة حسب فنات الدخل ، ويتم تحديد سعر مرتفع للسلعة الجديدة بحيث يوجه هذا السعر إلى الفئة الأولى في السوق والتي يهمها الحصول على السلعة مهما كان السعر مرتفعا.
- ١٠ تهدف الشركة من اتباع هذه الإستراتيجية إلى الحصول على حجم كبير من السوق غير
  المجزأ حسب الدخل بحيث تسعى إلى الوصول إلى السوق الكلية و ذلك عن طريق تحديد أسعار
  منخفضة لسلعها.
- ١٣ يحاول المنتج تحقيق أكبر قدر من تغطية السوق ولذا فإنه يتعامل مع الأكبر عدد ممكن من تجار التجزئة والجملة في كل منطقة.
- ١٤ يقوم المنتج باختيار موزع وحيد أو عدد محدود من الوسطاء للتعامل مع السلعة في منطقة معننة.
- ١٠ توفير السلع في متاجر أو منافذ قليلة ومنتقاة من عدة بدائل ويتم اختيارها على أساس سمعة الموزع و التزامه بالسعر.

المؤال الرابع: اكتب في الموضوعات التالية:

- ١- أهمية دراسة السوق..
- ٢ مراحل تطوير المنتج الصيدلاني الجديد.
- ٣-سلبيات مهنة مندويي البيع في شركات الأدوية.

#### انتمى الامتدان مع أطيب التمنيات بالتوفيق

Clinical pharmacy Date: 30/5/2013

Time allowed: 2 and half hours

#### Answer the following questions:

### I- MCO:

#### Choose the correct answer:-

(1 mark each)

1- Secondary hyperlipidemia is caused by the following except:

a. Diabetes mellitus.

b. Nephrotic syndrome.

c. Malnutrition.

d. Hypothyrodism.

2- which is the following element required for synthesis of thyroxine:

a. Iron.

b. Iodine.

c. Sodium.

d. Calcium.

3- The most specific marker used for diagnosis of early and late myocardial infarction is:

a. Myoglobin.

b. AST.

b. LDH.

d. Troponin.

4- Thyroxin hormone causes the following except:

a. Increase basal metabolic rate.

b. Decrease growth.

c. Has thermegenic effect.

d. Increase heart rate and cardiac out put.

5- Glucocorticoid excess causes the following except:

a. Cushing's syndrome.

b. Osteoporosis.

c. Hyperglycemia.

d. Diabetes insipidus.

6- Drugs which cause hyperlipidemia are the following except:

a. Thiazid.

b. β-blockers.

c. Salicylates.

d. Anabolic steroids

#### 7- Oxytocin is a hormone which has the following character: a. Causes contraction of smooth muscle cells in uterus. b. Stimulates contractile cells in mammary glands. c. Secreted by adrenal glands. d. Plays role in labour. 8- Cortisol is hormone which has the following character except: a. Secreted from zona reticularis of adrenal cortex. b. Its secrètion is diurnal. c. Stimulate gluconeogensis and inhibit protein synthesis. d. Its over production cause Cushing's syndrome. 9- Which of the following is not a hormone of the GI system? a. Gastrin. b. Cholecystokinin. c. Intrinsic factor. d. Secretin 10- CSF chloride level is decreased in: a. Cerebral haemorrhage. b. TB meningitis. c. Viral meningitis. d. Froin's syndrome. 12- Prerenal zsotemia is caused by: a. Acute renal failure b, Congestive heart failure. c. Renal tumor. d. Chronic renal failure. 13- Which of the following enzymes are markedly increased in acute Hepatitis: a. ALT. b. ALP. c. ALT. and AST. d. LDH. 14- The most common cause of heavy proteinuria is: a. Diabetes mellitus. b. Nephrotic syndrome. c. Liver disease. d. Chronic renal failure. 15- Causes of exudate ascites include the following except: a. TB. b. GIT malignancy. c. Bacterial peritonitis. d. Hepatic vein thrombosis. 16- Creatinine clearance results are correct using patients body surface area to account for difference in:

b. Dietary intake.

d. Muscle mass.

a. Age.

c. Sex.

### 17- In primary biliary cirrhosis all the following are true except:

- a. Anti nuclear antibody is positive.
- b. Anti smooth muscle antibody is positive.
- c. Anti HCV antibody is positive.
- c. Anti mitochondrial antibody is positive.

### 18-A patient with insulinoma may exhibit dizziness and fainting attributable to:

a, Hypoglycemia.

b. Ketosis.

b. Hyperglycemia.

d. Acidosis.

### II- Put false or true:

(0.5 mark each)

- a. Hypercalcemia of malignancy is characterized by elevated PTHrP and normal intact PTH.
- b. Myoglobin is a late marker of myocardial infarction and not affected by kidney diseases.
- c. Urinary and plasma chatecholamines and urinary  $VM\Lambda$  are markers of pheochromocytoma.
- d. Cholesterol form steroid hormones and vitamin D.
- e. The specific gravity of urine increased in diabetic insipidus.
- f. The most important abnormality of liver cirrhosis is decreased serum albumin.

### III- Answer in short:

(3 marks each)

- 1- Enumerate hormones secreted by the anterior pituitary.
- 2- What are the layers of adrenal glands and hormones secreted from each layer.
- 3- Biological action of parathyroid hormone.
- 4- Action of aldosteron and control of its secretion.
- 5- Mention physiological action of prolactin.
- 6- Causes of xanthochromic CSF.
- 7- Causes of increased plasma level of  $\beta_2$  microglobulin.
- 8- The acute metabolic complications of diabetes mellitus.
- 9- Causes of polyuria.
- 10- Laboratory findings in liver cirrhosis.

"Good Luck,,

انتهت الأسئلة،،، ملحوظة هامة:

سوف يعقد الامتحان الشفهي عقب انتهاء الامتحان النظرى والعملى وذلك في نفس المكان



#### غلية السيدلة – جامعة أسيوك

المادة: التسويق الدوانى عدد الصفحات: ٢ زمن الامتحان: ساعة واحدة التاريخ: ٢٠ /٦/ ٢٠١٣

الصيدلة الأكلينيكية الفرقة: الرابعة (فصل ٨) امتحان دور يونيو ٢٠١٣

لجنة الممتحنين: ۱- د. نادية أمين محمد ۲- د. أحمد سيد سباعي

### أجبم الأصئلة التالية ،

(۱۵ درجة)

المؤال الأول. ناقش مدى صحة العبارات التالية (مع التعليق):

- ١. يعمل مسوقو الدواء في معزل عن البيئة التي يعيشون فيها.
- ٢- إن السوق الصيدلاتي ينفرد و يتميز عن غيره من الأسواق في عدة خصائص مهمة.
  - ٣- إن عملية التغليف في المنتجات الصيدلانية ليست كأي عملية تغليف أخرى.

(۳۰ درجة)

السؤال الثاني: اذكر المصطلح العلمي للمفاهيم التالية:

- ١- هو العملية التي يتم من خلالها بلوغ سوق الرعاية الصيدلانية.
- ٢ هي القوى الفاعلة داخل وخارج المنظمة التي تؤثر على قدرة إدارة التسويق لإجراء التبادلات مع المستهلكين.
- ٣- تشمل هذه الفئة الأطباء و الصيادلة و الأطباء البيطريين و الممرضات، و هؤلاء يمثلون اهمية خاصة لشركات صناعة الدواء لأنهم يمثلون المستهلك أو العميل الداخلي.
- ٤- هو أي مادة أو خليط من المواد ؛ يتم تصنيعها كدواء في شكل صيدلي ، سواء للاستعمال الآدمي أو البيطري ، و تخضع لرقابة التشريعات و القوانين الصحية للبلاد .
  - ه. " ا مادة تستعمل في تغيير أو معالجة الأنظمة الفيسيولوجية الخاصة بالمريض".
  - ٦- هي تركيبات كيميائية تستعمل للوقاية و كذا التجميل، التنظيف، و لها نفس مصدر الأدوية.
  - ٧- هو عبارة عن مجموعة من المنتجات التي تقدمها المؤسسة والتي يرتبط كل منها بالآخر.
    - ٨- المزايا الأساسية التي يبحث عنها المشتري والتي تسمح بإشباع حاجاته.
    - ٩- مجموع العناصر التي تكون جزء من المنتج و التي تباع معه من أجل حفظ محتوياته.
- ١٠ عملية وضع أهم البيانات والمعلومات على أو داخل المنتج وهي مهمة لإظهار كيفية استعمال المنتج وفاعليته بالإضافة إلى المضاعفات الناتجة عن استعماله.
- 1.1 اسم او تعبير أو إشارة أو رمز أو تصميم أو تركيبة من المفاهيم التي تهدف إلى تشجيع العملاء المحتملين لتمييز سلعة أو سلع يمتلكها شخص عن سلعة أو سلع منافسة.
- ١٢ هو التعبير النقدي لقيمة السلعة في وقت ومكان معين وهو العنصر الوحيد من المزيج التسويقي الذي يمثل إيرادات المنشأة.
  - 1 ٣ عملية نقل المنتجات الدوائية من اماكن الانتاج إلى اماكن الاستهلاك في الوقت والمكان المناسبين .
- ١٤ مجموعة الجهود الترويجية التي تسعى لتعريف جمهور الأطباء وإقناعهم بأثواع المنتجات الدوائية ودفعهم لوصفها لمرضاهم.

١٠- هو الذي يتركز عمله على توفير طلبيات الأدوية التي تحتاجها الصيدليات.

السؤال الثالهم، ما اسم الاستراتيجية المتبعة في كل حالة مما يلى:

١- يتعامل المسوق في تلك الاستراتيجية مع السوق الكلى ككتلة واحدة أو كقطاع واحد.
 ٢- يُحدد السوق المستهدف للمنظمة بقطاع سوقي واحد.
 ٣- يتحدد السوق المستهدف بقطاعين أو أكثر من قطاعات السوق.
 ٤- تبني ما يسمى بأساليب التسويق الهجومي مثل التخفيضات الملموسة في الأسعار أو الإعلان

المكثف أو أساليب تنشيط المبيعات غير التقليدية.

- تبحث المؤسسة عن رفع مبيعاتها بدخول منتجاتها الحالية لأسواق جديدة، تستطيع توسيع أسواقها محليا أو وطنيا أو دوليا.
- ٦- التخلي عن بعض المنتجات التي أصبحت في طريق الزوال وليس لها إي مرودية.
- منتجات جديدة على خط المنتجات أي يزيد عدد المنتجات و لكن لا تتخلى عن ما هو موجود من ٧- تحاول المنظمة أن تميز منتجاتها عن منتجات أخرى من نفس النوع، وتطوير العمق بإضافة
- إضافة خطوط جديدة إلى خطوط منتجاتها الحالية التي تختلف استخداماتها عن المنتجات الأخرى و لكن تحت نفس العلامة. منتجات سابقا
- ٩- تطوير أو تغيير بعض الصفات للمنتجات القائمة مع إبقاء عدد المنتجات ثابت.
   ١٠ استبعاد خطوط منتجات قائمة أو تبسيط بعض التشكيلات داخل خطوط المنتجات بهدف.
- التبسيط في خط المنتجات وإسقاط منتجات غير مربحة و التركيز على المنتجات المربحة فقط تتبع هذه الإستراتيجية في السوق المتباينة حسب فنات الدخل ، ويتم تحديد سعر مرتفع للسلعة الجديدة بحيث يوجه هذا السعر إلى الفئة الأولى في السوق والتي يهمها الحصول على
- تهدف الشركة من اتباع هذه الإستراتيجية إلى الحصول على حجم كبير من السوق غير المجزأ حسب الدخل بحيث تسعى إلى الوصول إلى السوق الكلية و ذلك عن طريق تحديد أسعار السلعة مهما كان السعر مرتفعا.
- منخفضة لسلعها. يحاول المنتج تحقيق أكبر قدر من تغطية السوق ولذا فإنه يتعامل مع الأكبر عدد ممكن من
- يقوم المنتج باختيار موزع وحيد أو عدد محدود من الوسطاء للتعامل مع السلعة في منطقة تجار التجزئة والجملة في كل منطقة.
- توفير السلع في متاجر أو منافذ قليلة ومنتقاة من عدة بدائل ويتم اختيارها على أساس سمعة الموزع و إلتزامه بالسعر.

السؤال الرابع: اكتب في الموضوعات التالية:

١ - أهمية دراسة السوق..

- ٧ مراحل تطوير المنتج الصيدلاني الجديد
- ٣ سلبيات مهنة مندويي البيع في شركات الأدوية.

انتمى الامتمان مع اطيب التمنيات بالتوفيق

### **Practical examination**

### 1) Liver function test

Parameters		Value	
Serum bilirubin (total)	8	mg/dl	
Serum bilirubin (cong)	2.4	mg/dl	
Plasma protein (total)	6.2	gm/dl	
Albumin	4.1	gm/dl	
Globulin	2.1	gm/dl	
Alkaline phosphatase	12	K.A.U/dl	
SGOT	20	I.U/L	
SGPT	6	I.U/L	

- 1- What is your diagnosis?
- 2- What is the significance of increased alkaline phosphatase enzyme in liver diseases?
- 3- In this case LDH enzyme if measured is it normal, increased or decreased?

### 2) Kidney function test

Parameters	Value		
S. Urea	96	mg/dl	· · · · · · · · · · · · · · · · · · ·
S. Creatinine	1.5	mg/dl	
Creatinine in urine	120	mg/dl	•
Urine volume /min	1.5	mL	
Creatinine clearance	120	ml/min	

- 1- What is your provisional diagnosis? Why?
- 2- What are the causes of increased blood urea?

**3**>-

### 3) Oral Glucose tolerance test

	Blood	Sugar	Acetone
Fasting	300 mg/dl	+ve	- ve
1/2 hour (after glucose)	400 mg/dl	++ve	+ ve
1 hour	600 mg/dl	+++ve	+ ve
1 1/2hours	550 mg/dl	+++ve	+ ve
2 hours	500 mg/dl	+++ve	+ ve
2 1/2 hours	420 mg/dl	++ve	+ ve

- 1- What is your diagnosis?
- 2- What is the normal fasting blood glucose level?
- 3- What other causes of acetonuria?

### 4) <u>Lipid Profile</u>

Age: 8 years

Sex: Male

Parameter Triglycerides T.chplesterol LDL-c HDL-c	Normal values  1-8 mmol/L.  3.5 – 6.5 mmol/L  2.5 – 4.5 mmol/L  0.7 – 2 mmol/L	Patient values 12 5.7 3.2 1.7

### Comment:

- Lipoprotein electrophoresis show intense band at origin of serum application.
- Increase Apo B48
- 1- What is your diagnosis?
- 2- Precaution of sampling for determination of lipids?
- 3- What is the lipid parameters consist with high risk of coronary heart disease? What is the antirisky factor?

### 5) <u>Case:</u>

A 68 year old man presented to the ICU with sudden onset of severe chest pain, left arm pain, dyspnea, and weakness while away from home on a business trip.

Investigations:

Serum:	7Am	4PM
Total CK	200U/L	700
		(normal, 54-186 U/L.
CK-MB	16 U/L	150
		(normal, 0-24U/L)
Myoglobin	76 ug/L	124
	•	(normal, <70 ug/L)
Troponin T	<0.1 ug/L	1.3
		(normal, 0-0.1 ug/L)
LD1 > LD2 flipped ratio	<1	3
LDH	250	328
		(normal,75-280 U/L)

- 1- What is your diagnosis of this case? Why
- 2- From the previous data, what is the most diagnostic pattern for diagnosis of this case?
- 3- Mention 2 inflammatory markers predict future cardiac disease?



### Pharmaceutics Department Clinical Pharmacy Program Clinical Pharmacy 2 – Class 8

**Total Marks: 50** 

Instructors: Prof. Ahmed Mostafa and Dr. Mostafa Abdel-Rahman

Time allowed : 2hours	Wednesday, June 12, 2013
Notes : Read the questions car	efully before you start to answer -
the examination paper contain	s eight pages - all questions should
be attempted.	
PART :	<u>1 (25 marks)</u>
Prof. Ahmed	Mostafa El-Sayed
<u>Question1 :</u> Indicate whether e	ach of the following statements is
true ( $\sqrt{}$ ) or false ( $\sqrt{}$ ) and	
	f lipid-soluble drug are required for
( )B-The metabolic fate of c the physiological hyperbilirubi	drugs in the newborn is affected by naemia
( )C-Central parenteral nutriconcentrated, hypertonic nutric	ition allows the infusion of a highly ent admixture.
<b>0 0</b>	
Question 2 : Give <u>TWO</u> example	es for each : (3 marks)

A-The most significant drug - nutrient interactions in enteral
nutrition which result in reduced bioavailability and suboptimal
therapeutic effect
en de la companya de La companya de la co
B-Drugs used in the treatment of osteoporosis
C-Causes of medication errors which are now recognized as an important cause of adverse drug events in pediatric practice
Question 3 : Give definition for each : (3 marks)
A <u>-Malnutrition :</u>
n de la composition de la fille de la composition della compositio
B-Anaemia in adults according to WHO definition:
Questions 4: Give reason(s) for: (3 marks)
A-In geriatric patients, the free fraction of acidic drugs in blood such as cimetidine, furosemide and warfarin is increased than in

case of adult patients

B-Patients with end-stage renal disease suffer from aenemia

C-The loss of public confidence in the MMR vaccine and a decrease in its coverage for 2 years old infants

Questions 5: Complete the followings:

(7.5 marks)

A-In the treatment of respiratory distress syndrome of neonates, the major pulmonary toxicity is (1 mark)

B-In children, non-adherence may be caused by several factors such as (2 marks)

i-

iv-

C-Aenemia is classified by size and colour of red cells into:

(1.5 marks)

i- e.g.

ii-

D-Enteral nutrition is contraindicated in case of: (1 mark)

i-

ii-

E-The main risk factors contributing to increased incidence of stroke in geriatric patients are: (2 marks)

j-

ii-

iii-

iv-

<u>Questions 6</u>: Select and circle the <u>ONE</u> lettered answer that is correct: (4 marks)

A-The respiratory rate (breath/minute), in children of age range 5-12 years old, is equal to:

i-25 - 30

ii-16 – 25

iii-25 - 45

B-In parenteral nutrition, we consider reducing the fluid output in case of :

i-Fever

ii-Cardiac failure

ii-Low humidity environment

iv-Acute anabolic

C-Among the symptoms of respiratory distress syndrome in neonates :

i-Tachypnoea

ii-Abdominal distension

iii-Absence of breathing

iv-Intracranial bleeding

D-Largest dose of theophylline, in children older than 1 year, is required for :

i-Adult children.

ii-9 -12 years old.

iii-1-9 years old.

iv-12-16 years old

### Part II (25 Marks): Instructor Dr. Mostafa AbdelRahman Sayed

	The state of the s
	The first section was assumed to the section of the
	n de la companya de La companya de la co
: Discuss common THREE mecha	inisms of action of intrauterine contraceptive device
D) (1.5 mark)	
: How to counsel patients with a	inxiety about the use of henzodiazoninos (roforning
common side effects and without	inxiety about the use of benzodiazepines (referring
common side effects and without	inxiety about the use of benzodiazepines (referring
common side effects and without	nnxiety about the use of benzodiazepines (referring drawal syndromes) (2 marks)
common side effects and witho	nnxiety about the use of benzodiazepines (referring drawal syndromes) (2 marks)
common side effects and witho	nnxiety about the use of benzodiazepines (referring drawal syndromes) (2 marks)
common side effects and witho	Inxiety about the use of benzodiazepines (referring drawal syndromes) (2 marks)
common side effects and witho	nnxiety about the use of benzodiazepines (referring drawal syndromes) (2 marks)

	: Choose the most a mark)	appropriate answei	for the following que	stions (5 Marks, each point		
1.	The urine may bec	The urine may become dark or red brown following the treatment with				
	Metronidazole	B. Doxycycli				
<b>2.</b> A.	Primary site of infe Urethra and Skene	ection for Neiserria 's tubules B. Tubes	gonorrhoea include the and ovaries C. Bartho	ne following except olin glands D. Endocervix		
3.	When Chlamydia trachomatis is associated with gonocoocal infection, both are better treated with					
A.	IM procain penicill	in B. Azithromy	cin C. Fluconazole	D. All of the above		
4.	Syphilis infection is	s a sexually transm	itted disease which ca	n be treated with		
	Benzathine penicill					
	mother infected w	ith	ed eye infection during Trichomonas vaginali			
	caused by adminis	tering penicillin		high risk to		
7.	Patients with toni	c seizures may mar	nifest	#1		
	A. Loss of muscles		B. Muscle jei	king		
	C. Rigidity of body	muscles	•	uscles followed by jerking		
8.	Which of the follows	wing antiepileptic	drugs may worsen abs	ence and myoclonic		
	A. Oxcarbazepine	B. Sodium val	proate C. Topirama	ate D. Zonisamide		
9.			d with severe autonor	mic symptoms are usually		
	know as					
	A. Bipolar disorde	r B. Depression	C. Panic attacks	D. Parkinson's disease		

10.		An oestrogen receptor modulator which is given in a cyclic schedule to treat female infertility					
	Α.	Ethinylestradiol	B. Clomiphene citrate	C. Levenorgestrel	D. Follitropin		
			of the following statement (5 marks, each 1 mark)	nts is true ( T ) or false			
	1.	( ) Dyspareunia vaginitis infection	is defined as painfùl mic				
	2.	( ) Gummas is infection.	a flat wart-like growth o	on the vulva associated v	vith syphilis		
	3.	( ) Hyperemesi	s gravidarum can be trea	ted with antipsychotic p	henothiazines		
	4.	( ) MAOIs can	be combined with SSRI's	to treat major depressi	on		
	5.	( ) Paroxetine a	ind citalopram antidepre	ssant could be used safe	ely in pregnancy		
Q6:	Gi	ve reason(s) for the	e following sentences (5	marks)			
	1.	Triphasic oral CO	may be preferred over	monophasic pills (1 ma	rk)		
	•.						

contraceptive pills (1 mark)

2. Females on antiepileptic drugs require higher doses of ethinylestradiol-containing

4. Diazepam and flurazepam are long acting sedative-hypnotic drugs (1 mark)
5. Co-careldopa (the combination of carbidopa and levodopa) is preferred over levodopa in treatment of Parkinson's disease (1 mark)
<ul> <li>Q7. Complete the following spaces in the following sentences (5 marks)</li> <li>1. Parkinson's disease is a neurological degenerative diseases caused by depletion of the neurotransmitter</li> <li>2. Parkinson's disease is characterised by a triad of common symptoms which are</li> </ul>
3. The common side effects of using bromocriptine in the treatment of Parkinson's disease are such as
<ul> <li>5. Cheese reaction is an elevation of blood pressure caused by ingestion of foods rich in</li></ul>
<ul> <li>7. It was suggested that major depression could be due to a cerebral deficiency of the neurotransmitters</li></ul>
9. Tricyclic Antidepressant (TCA) lost its rank as first choice of treating depression because of their
**** End of questions, best wishes!*** يعقد امتحان الشفوى عقب امتحان النظرى مباشرة، الساعة الحادية عشرة ص الموافق ١٢-٦-٢٠١٣

3. Barbiturates are not preferred to be used as sedative-hypnotic nowadays (1 mark)

Assiut University
Faculty of Medicine
Department of Pharmacology

## Drug interactions Examination For Clinical Pharmacy Students

Time allowed: Two hours

9 June, 2013

Multidrug therapy is a double-edged sword. Decide whether each of the following drug combinations is recommended or not and explain the pharmacological rationale behind your decision:

- 1- Chlorpropamide and cortisone (6Marks)
- 2- Oral contraceptives and metoprolol (6Marks)
- 3- MAO inhibitors and epinephrine (6Marks)
- 4- Sotalol and thiazide diuretics (6Marks)
- 5-Propranolol and chlorpromazine (6Marks)
- 6-Estrogen and phenytoin (4Marks)
- 7-Tolbutamide and diazoxide (4Marks)

**GOOD LUCK** 



Assiut University
Faculty of Medicine
Pharmacology Department

Date: 9/6/2013

## Final Examination for clinical pharmacy students "Drug Interactions" Part two ((MCQs & T or F))

### (I) for each of the following MCQs, Select the one most appropriate answer:

(Two Marks for each)

- 1-When prescribing each of the following drug combinations, the physician expect no possible significant interaction except with:
  - A. Azithromycin and terfenadine
- B. Amiodarone and fluvastatin

- C. Propranolol and aspirin
- D. Atorvastatin and Propranolol
- 2- Recently, a young female patient was referred to a dentist for the removal of an abscessed maxillary first molar tooth. The patient had significant swelling in the area and the dentist initiated an antibiotic regime of Pen Vee "K" 500 mg four times a day and rescheduled her extraction for later that week, when the infection was contained by the antibiotic. The patient had no significant past medical history although she was using birth control pills. The dentist explained to her that the antibiotic might reduce the effectiveness of the oral contraceptive. She laughed and showed the dentist a picture of her 8 month old daughter. She then said, "I wished my dentist had told me that".

#### The most widely promulgated theory of oral pills failure in this case is that:

- A. The antibiotic interferes with absorption of the oral pill after dosing
- B. The antibiotic impairs recycling of ethinylestradiol from the gut
- C. The antibiotic induces metabolism of ethinylestradiol content of the pills
- D. The antibiotic alters plasma protein binding of hormones in the pills
- 3- In which of the following drug combinations, one drug increases serum level and enhances pharmacodynamics of the other one:
- A. Propranolol and Digoxin

- B. Verapamil and Digoxin
- C. Amiodarone and simvastatin
- D. Amiodarone and verapamil
- 4- Oral amoxicillin for 7 days was given to a patient taking a 7.5mg weekly dose of methotrexate (MTX). The patient developed neutropenia and thrombocytopenia and died despite folinic acid rescue therapy. The cause of MTX toxicity is:
- A. Penicillins interfere with glomerular filtration of MTX
- B. Penicillins reduce tubular secretion of MTX
- C. Both A and B
- D. Neither A nor B

<b>5-The antibiotic that</b> A. Pencillin G	<b>may accentuate the</b> B. Erythromycin		•	<b>ed by d-tubocurari</b> Chloramphenicol	ne is
6- A post operative chemotherapy by a post of antibiotics treatments started the combinate Which one of the follow. Vancomycin and C. Ampicillin and C.	new resident doctor nent, the review of t tion of antibiotics w lowing is the most li d Amikacin	T. However, when the the charts was done thich was mutually a ikely combination the B. Cephalexi	e patient die e. It was for intagonistic at was give in and Gen	d not respond ever und that the reside in action. en? tamicin	n after 10 days
7-With regard to drug A. Use of either ome B. Concomitant the C. Antiplatelet effect D. Coadministration	eprazole or esome erapy of CYP3A4 in ct of low dose aspi	prazole with clopic hibitor with pravast rin is reduced by c	logrel shou atin results oncurrent i	ld be discourage in rhabdomyolysi buprofen adminis	S
8- Which ONE of the its metabolism? A. Carbamazepine				phenytion as well	
9- ONE of the following A. Methotrexate	ing drugs produces B. Theophylline			<b>iprofloxacin:</b> . Antacids	
10- A 57-year-old mathematical The patient received day) and oral antibio Which of the following A. Ampicillin B. C.	a prosthetic heart vitics. Laboratory evanged antibiotics is the	valve 5 months ago aluation reveals an I	and is curr NR of 6.4.	ently taking warfa	
11- All the following A. Digoxin and Furo B. Nifedipine and Pr C. Theophylline and D. Sildenafil and Iso	semide ropranolol d Ciprofloxacin	ons is potentially ha	azardous ex	ccept:	

#### (II) Decide whether each of the following statements is true or false:

(One Mark for each)

- 1- Unlike doxycycline, tetracycline is not likely to interact with carbamazepine
- 2- When prescribing quinidine to a patient on digoxin therapy, a clinically relevant p-glycoprotein interaction inevitably springs into mind
- 3- Inducing activity of cytochrome P450 1A2 reduces efficacy of clopidogrel
- 4- Simultaneous administration of troleandomycin and oral contraceptives markedly increases the risk of jaundice
- 5- Amiodarone-Digoxin is a mixed pharmacokinetic/pharmacodynamic interaction
- 6- Physician should monitor for decreased therapeutic effects of digoxin tablets if cyclophosphamide is initiated
- 7- Penicillin and gentamicin should not be mixed in the same syringe
- 8- It is expected that oral verapamil can control supraventricular tachycardia in a patient receiving rifampin for pulmonary tuberculosis
- 9- Concurrent use of aspirin and ACE inhibitor in moderate to high degree of heart failure patient will reduce the effect of ACE inhibitor
- 10- Oral digoxin should be taken at least 2 hours prior to an antacid
- 11- Spironolactone/ACE inhibitor concomitant therapy carries a high risk for heart failure patients
- 12- Concomitant use of digoxin and sympathomimetics increases the risk of cardiac arrhythmias.
- 13- Alcoholic beverages consumed concurrently with, or up to 72 hours after taking, cefaperazone may lead to acute alcohol intolerance
- 14- Ketoconazole can be administered simultaneously with ranitidine
- 15- Using hydrochlorothiazide and gentamicin together can lead to hearing loss

Good Luck
Dr. Romany H Thabet



# Assiut University-Faculty of Pharmacy Pharmaceutical-Analytical Chemistry Department Pharmaceutical Analysis & Quality Control (PC808)



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	Final Examination- June 4, 2013
	mai Examination- built 4, 2010
	Time Allowed: 2 Hours
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n the provided tables, compare between	the following: (5 marks)
Quality Assurance	Quality Control
1-	
2.	
3-	
Constant errors	Proportional errors
1-	
2-	
Complete the following:	(5 marks)
Two characteristic features which deter and The quality control unit can be subdivid and Errors can be minimized by	

[III] Select from (B) the correct scientific term that matches the definitions in (A) then <u>write the matching number</u> in the provided space. (5 marks)

(A)

Matching number	Definition						
	a) Errors due to imperfection in the analytical measuring devices.						
	b) A 4-step (P-D-C-A) simple method to test information before making a major decision.						
	c) A quantity of any drug produced during a given cycle of manufacture.						
	d) A split of a sample prepared in such a way that there is confidence that it has the same concentration of the analyte as that in the original sample.						
	e) Scheme for products moving in international commerce to enable countries with limited drug regulatory capacity to obtain partial assurance from exporting countries.						
And office account of the second of the seco	f) speed and completeness of entrance of the used drug to the blood stream.						
	g) The sample weight necessary to ensure a relative sampling error of 1% in a single determination.						
The second secon	h) The degree or grade of excellence possessed by a certain item.						
	i) Sample consisting of 2 or more portions of material (collected at the same time) taken in proportion to the amount of the material they represent.						
	j) The minimum requirements that the industry must meet when manufacturing, processing or packing drugs for human and veterinary use.						

(B)

1- Sampling Constant (K <sub>s</sub> ).	9- Sub-sample.
2- Quality.	10- Good Manufacturing Practice (GMP)
3- Personal Errors	11- Shewhart Cycle.
4- Composite Sample.	12- Batch
5- Instrumental Errors.	13- Quality management.
6- WHO Certification Scheme.	14- Internal standard.
7- Random Sample	15 Bioavailability.
8- Blank Experiment	

[IV] Choose the most correct answer and space.	V] Choose the most correct answer and write the matching letter in							
<ul> <li>1- A good sample container should</li> <li>a) interact with the sampled material.</li> <li>b) protect the sample from light, air and r</li> <li>c) allow sample contamination.</li> <li>d) be easily damaged on transport.</li> </ul>	moisture.	(	arks)					
2- All the following are types of Random	sampling excent	1	١					
a) selective .	b) simple.	(	)					
c) stratified.	d) systemic.							
3- Running parallel determinations	o, Oyotomio.		,					
a) indicate the accuracy of the method.	b) correct the randon	n orrara	)					
c) indicate only the precision of the analy	rsis. d) None of the above		•					
<ul> <li>4- The internal standard method</li> <li>a) is a blank experiment.</li> <li>b) is used to test dosage uniformity.</li> <li>c) is of particular value in HPLC and GC additional method of random sampling.</li> </ul>	analysis	(	)					
5- A standard operating procedure (SOP) a) is a sampling method.		(	)					
b) is not necessary for a good quality sys	tem.							
c) is a type of systemic errors.								
d) is detailed, written instructions to achie specific function.	eve uniformity of the perform	ance of	a					
6- Quality assurance		1	,					
a) is part of quality control.	b) means detection of defec	( t	)					
c) means prevention of defects.	d) None of the above.	ıs.						
7- The standard addition method	of the above,	,	,					
<ul> <li>a) A known amount of the analyte is addedor the total amount of the analyte.</li> </ul>	d to the sample, which is the	( n analyz	) :ed					
b) is used to minimize errors.								
c) The difference between the results for sanalyte gives the recovery of added amou	samples with and without the int.	added						
d) All of the above.								

a) c	ypes of documents for que pecifications recorderes.	uality assurance include	b) Records. d) All of the		)
			w) rai or the	anove	•
9- A	analytical method errors			21	,
a) a	re inherent to the method	and difficult to detect.		,	
	re a type of random error				
	re induced by carelessne				
	all of the above.				
	A representative sample			(	)
a) c cha	hosen by a sampling plar racteristics.	n that screens out materials	with certain	`	,
b) c	onsisting of 2 or more po	ortions of material collected	l at the same	fimo	
c) ty	pical of the parent mater	ial.	. de tito same	unie.	
	all of the above.				
[V] i and	Mark ( $$ ) in front of the co- correct the error in the w	rrect sentence and (x) in fro	ont of the wro	ong sen (5 ma	
1-	Quality control include activities used to fulfill t	s all the operational tech he requirements for quality	niques and	(	)
2-	determines and impleme	spects of the overall managents the quality policy.	gement that	(	)
3-	Weight variation and do in the stability indication	sage uniformity testing are n unit.	carried out	(	)
4-	Spectrophotometry is m	ore sensitive than spectrof	luorometry.	(	)
5-	According to the type of into homogenous and he	of material, samples can be eterogeneous materials.	e classified	. (	)
			* - *		

Part (B), Prof. Dr. Abdel-Maaboud	Ismail
[VI] Define the following terms:	
1- Accuracy	

(25 Marks) (2.5 Marks)

- 2- Ruggedness
- 3- Stability-indicating assay
- 4- Signal impurities
- 5- Penultimate intermediate

[VII] Define and/or compare between the following pairs:

(5 Marks)

Term A	Term B
Therapeutic incompatibility	Chemical incompatibility
Selectivity	Specificity
Synthesis-related impurities	Formulation-related impurities
Related products	Concomitant compounds
Primary standards	Pharmacopoeial standards

4- Limits for impurities in bulk drug substances must consider a number of factors from which:

#### [IX] Complete the following equations:

(3 Mraks)

Indomethacin

Chloramphenicol

Alkene compound

 $H_2O$ 

each other:  (2.5 Marks)  1- Ketoconazole & antiacids.
2- Digoxin & antibiotics
3- Tolbutamide & aspirin
4- Erythromycin & astemazole
5- Indomethacin & sulphonamides
[XI] Supported by chemical equations; give reason for each of the following:  (4 Marks)  1- Inactivation of Gentamycin by pencillin in admixtures for injection
2- Aspirin is inactivated with time in the presence of high humidity
3-Sodium metabisulfite (NaHSO $_3$ ) is incompatible with catecholamines in solutions for injection:
4- Codeine is incompatible with aspirin in tablets.

**Assiut University** 

**Faculty of Medicine** 

Date: 26/5/2013

Time Allowed 2 hours

**Department of Pharmacology** 

### EXAMINARION OF PHARMACOLOGY II FOR STUDENTS OF CLINICAL PHARMACY

For each of the followings questions select the most appropriate answer:

(1 mark each)

### 1-All the following are uses of levothyroxine except

A-Myxedema coma

**B-Cretinism** 

C-Before thyroidectomy

D-TSH suppression

2-All are uses of thioamides except

A-Gravis disease

B- lupus erythromatosus

C- Before treatment with radioactive iodine

D-Preoperative for thyroidectomy

### 3-All the followings are uses of corticosteroids except

A-Addison's disease

B-Acute adrenal insufficiency

C-Congenital adrenal hyperplasia

D-Cushing syndrome

### 4-All are contraindications of corticosteroids except

A-Diabetes mellitus

B- Peptic Ulcer

C-Heart failure

D-Ulcerative colitis

### 5-All the followings are adverse effects of corticosteroids except

A-Osteoporosis

B-Bronchial asthma

C-Hirsutism

D-Hypokalemia

### 6-All the followings are adverse effects of insulin except

A-Anorexia

B-lipodystrophy

C-Insulin edema

D-Formation of antibodies

7-All the followings are uses of insulin except

A-Type 1 diabetes

B-Diabetic ketoacidosis

C-Postpancreatectomy

D-Postoperative management of diabetes

### 8-All the following are effects of sulfonylureas except

A-Stimulation of insulin release

B-Reduce glucagon release

C-Increase number of insulin receptors

D-Opening of ATP sensitive K + channels

### 9-Concerning oral contraceptives all the followings are true except

A-Estrogen inhibits release of LH and FSH

B-Progestin inhibits LH release

C-Contraceptives enhance implantation

D-Progestin thickens the cervical mucous

### 10-All the followings are true except

A-Tamoxifen is used in endometrial cancer

B-Raloxifene is used osteoporosis

C-Clomiphene is used as ovulating agent

D- Bisphosphonate is used in paget, s disease

### 11-All are therapeutic uses of heparin except

A-Acute deep venous thrombosis

B-Pulmonary hypertension

C-Treatment of disseminated intravascular coagulation

D- Pulmonary embolism

### 12-All are adverse effects of heparin except

A-Thrombocytopenia

**B-Angina** 

C-Osteoporosis

D Alopecia

### 13- All are adverse effects of warfarin except

A-Bleeding

B- Skin necrosis

C- Purple toe syndrome

D-Nephrotoxicity

### 14-Warfarin is used for prevention of all the following except

A -Progression of acute deep venous thrombosis

B-Peripheral vascular disease.

C-Pulmonary embolism and Systemic embolization

D-Venous thromboembolism

### 15-All the followings are therapeutic uses of chlorpromazine except

A-Schizophrenia

B-Parkinsonism

C-Hiccough

D- Bipolar affective disorder

### 16- All are therapeutic uses of selective serotonin reuptake inhibitors except

A-Major depression

B-Neuropathic pain

C-Obsessive compulsive disorder

D-Bulimia nervosa

17- All are therapeutic uses of phenytoin except

A-Generalized tonic-clonic seizure

B- Myoclonic seizure

C-Status epilepticus

D-Trigeminal neuralgia

18-All are adverse effects of phenytoin except

A-Nystagmus and ataxia

B- Edema

C-Osteomalacia

D- Hirsutism

19- Write true T or false F for the following statement

Carbamazepine is used in trigeminal neuralgia but not bipolar affective disorder

20-All are therapeutic uses of valproic acid except

A-Status epilepticus

B-Absence seizure

C-Myoclonic seizure

D-Bipolar affective disorder

21-Concrning mechanism of action of penicillins, all are true except

A- Penicillins bind to penicillin binding protein.

B-They inhibit cross linking of peptidoglycan chain of cell wall.

C-They activate autolytic enzymes

D-They inhibit protein synthesis

22-All uses of metronidazole except

A-Metronidazole is used in eradication of Helicobacter pylori in gastric ulcer

B-It is used in hepatic but not intestinal amoebiasis

C-It is drug of choice in trichomoniasis

D-It is used in Pseudomembranes colitis caused by C difficile infection

23-Concerning tetracyclines all are true except

A-Tetracyclines bind to 50S ribosome.

B-They are used in treatment of mycoplasma pneumoniae infection

C--They cause superinfection

D They are used in Helicobacter pylori infection

24-All are uses of cephalosporins except

A-Cefazolin and cephalexin are used in staphylococcal infection

B-First generation cephalosporins are used in bacterial meningitis C-Ceftriaxone is the drug of choice in gonorrhea

D-Cefuroxime is used in H influenza infection.

25-All the following are therapeutic uses of chloroquine except

A-Acute attack of nonfalciparum malaria

B-Amebic liver disease

C-Rheumatoid arthritis

D-Porphyria

2	6-	0	ne	of	the	foll	owings	is	incorrect	regarding	antim	icrobial	combinatio	n
			7.7								***********		COMMUNICACIO	

A-It is used for mixed bactrerial infection

B-It is used to enhance therapeutic efficiency

C-It is used when the specific cause is unknown

D-lt is used to enhance the emergence of resistance as in T.B.

### 27-One of the following is not the cause of resistance to anti-microbial agents

A-Reduce entrance of the drug into pathogen

B-Enhanced export of antibiotic by influx pump

C-Release of microbial enzymes that destroy the antibiotic

D-Reduced affinity of the drug to altered drug structure in the microorganism

#### 28-One of the following is not correct regarding the types of sulfonamides

A-Sulfasalazine is poorly absorbed from gut

B-Sulfadoxine is one of long acting sulfonamides

C-Topically used sulfonamides include sulfacetamide

D-Sulfamethoxazole exhibits longer duration of action about 100-230 h

### 29-One of the following is not correct regarding adverse effects of sulfonamides

A-Nephrotoxicity B-Hemolytic anemia

C-Ototoxicity D-Hypersensitivity

## 30-Regarding therapeutic uses of cotrimoxizole all the following are true except

A- Urinary tract infection B-Acute bronchitis

C-Acute otitis media D-Non of the above

31-One of the following is correct regarding the mechanism of action of aminoglycosides

A-Inhibition of cell wall synthesis

B-Inhibition of plasma membrane synthesis

C-Inhibition of protein synthesis through binding with 30 S ribosomal subunit

D-Inhibition of protein synthesis through binding with 50 S ribosomal subunit

32-One of the following drugs enhance the ototoxicity of streptomycin

A-Furosemide

B-Hydrochlorothiazide

C-Prazosin

D-Mannitol

33-Fanconi syndrome may be a side effect of one of the following

A-Sulfasalazine

B-Tetracycline

C-Methacillin

D-Naficillin

34-First line agents for treatment of T.B. include all the following except

A-Amikacin

B-Moxifaloxacin

C-Isoniazid

D-Rifampin

35-One of the following is not considered an alkylating agent

A-Cyclophosphamide

B- Busulfan

C-Carmustine

D- Bleomycin

36-One of the following is the drug of choice in treatment of NSAIDs induced ulcer

A-Misoprostol

**B-Cimetidine** 

C-Sodium bicarbonate

D-Sucralfate

#### 37-Regarding uricosuric effect of aspirin all the following are true except

A-Small doses 1-2 gm/day lead to hyperuricenmia

B-Large doses 5-7 g/day lead to hypouricemia

C-Its effect on uric acid level in the blood is dose dependent

D-Intermediate doses produce no changes in uric acid level

#### 38-Regarding celecoxcib all the following statements are true except

A-It is antipyretic, analgesic and anti-inflammatory

B-It has half life of about 17 hours

C-It exhibits side effects on GIT due to inhibition of cyclooxygenase

D-It is more expensive compared to aspirin

#### 39-All the following drugs induce parkinsonism

A-Haloperidol

**B-Chlorpromazine** 

C-Methyl dopa

D-Ropinirole

#### 40-Regarding bromocriptine, all the following are true except

A-It is a potent D<sub>2</sub> antagonist

B-It is used a s adjunct to dopa in treatment of Parkinsonism

C-It used in hyperprolactinemia

D-It is contraindicated in peptic ulcer and mental illness

### 41-Regarding levodopa, all the following statements are true except

A-It is a precursor to dopamine

B-It does not cross blood brain barrier

C-It stimulates D<sub>2</sub> receptors

D-It is transported by active transport mechanism

### 42-Regarding cromolyn sodium, all the following statements are true except

A-It stabilizes the mast cell membrane

B-It is given in the form of suppositries

C-It is not a bronchodilator

D-It decreases the release of histamine and SRSA

### 43-Regarding tiotropium all the following statements are true except

A-It is one of anticholinergic drugs

B-It has a shorter duration t  $\frac{1}{12}$  compared with ipratropium

C-It is used alone or in combination with  $\beta$  agonist in treatment of bronchial asthma

D-It is given once daily

## 44-Regarding proton pump inhibitors all the following statements are true except

A-Omeprazole is a prodrug which requires activation in an alkaline medium

B-They are the most effective suppressors of gastric acid secretion

C-Lansoprazole and pantoprazole are examples of proton pump inhibitors

D-They produce few side effects as nausea and abdominal pain

### 45- Pharmacological effects of morphine include all the following except A-Analgesia B-Euphoria C-Pin point mydriasis D-Vagal stimulation 46-Regarding Thumazenil all the following statements are true except A-It is a competitive antagonist to benzodiazepines B-It exhibits a longer duration duration of action 8-10 hours C-It is subjected to first pass metabolism D-It is used in treatment of benzodiazepine over dose Write True T or false F for each of the following statements 47-Ciprofloxacin inhibits both DNA gyrase and topoisomerase IV 48-Aminogluycosides are absorbed if given orally THE PARTY OF THE P 49-Isoniazid inhibits mycolic acid synthesis in the fungal cell wall

50-Rifampin is considered as a microsomal enzyme inducer