Department of Mathematics فصم الرياضيات Paculty of Science ماية العلوم امتحان نهاية الفصل الدراسي الثاني للعام الجامعي ۲۰۱۸/۲۰۱۷ استخان نهاية الفصل الدراسي الثاني العام الجامعي درجة الامتحان: ٥٠ درجة الامتحان الزمن: ساعتان اولا الجبر: أجب عن خمس فقرات فقط مما يلي:- (خمس درجات الكل فقرة) 1- استخدم الاستثناج الرياضي في إثبات أن: $\frac{1}{1.2} + \frac{5}{2.3} + \frac{11}{3.4} + \dots$ 1- حلل الكسر $\frac{2x^2 + 4x}{2x^2 - x - 1}$ إلى مجموع كسوره الجزئية.

 $\frac{1}{2.5} + \frac{1}{5.8} + \frac{1}{8.11} + \dots$ إلى ما لانهاية .

٣- أوجد مجموع المتسلسلة الآتية:

٤ - اختبر تقارب المتسلسلات الآتية:

(i)
$$\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{(3n-1)}$$

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$$\frac{4}{1.3.5} + \frac{6}{3.5.7} + \frac{8}{5.7.9} + \dots \rightarrow \infty$$

x مينا قيم $\frac{1}{x}$ التصاعدية ، مبينا قيم $(9-3x)^{3/2}$ وجد الأربعة حدود الأولي في مفكوك $(9-3x)^{3/2}$

التى تجعل كل مفكوك صحيحا.

٦- باستخدام طريقة جاوس للحذف أوجد حل نظام المعادلات الخطية التالي:

$$x + 2y + 2z - 5 = 0,$$

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أنظر بقية الأسئلة في الخلف

ثانيا التفاضل: أجب عن إلأسئلة الآتية: (خمس درجات لكل فقرة)

۱) أوجد مجال ومدي الدالة $f(x) = \sqrt{1-x^2}$ ، ثم ادرسها من حيث كونها تناظر أحادى أم لا و أوجد الدالة العكسية إن أمكن .

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ه) أوجد التفاضل النوني للدالة $y = \frac{1}{(2x+3)^m}$ عدد موجب.

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أنظر بقية الأسئلة في الخلف



Second Semester - Final Exam - May 2018

Course: English Language (1)
Time Allowed: Two Hours
Total Score: 50 Marks

Date: 22-5-2018

I-Read the following passage, then answer the questions below: (6x2=12 marks)
Steamships were first introduced into the United States in 1807, and John Molson built the first
steamship in Canada (then called British North America) in 1809. By the 1830's dozens of steam
vessels were in use in Canada. They offered the traveler reliable transportation in comfortable
facilities-a welcome alternative to stagecoach travel, which at the best of times could only be
described as wretched. This commitment to dependable river transport became entrenched with
the investment of millions of dollars for the improvement of waterways which included the
construction of canals and lock systems. The Lachine and Welland canals, two of the mos
important systems, were opened in 1825 and 1829, respectively. By the time that Upper and
Lower Canada were united into the Province of Canada in 1841. The public debt for canals was
more than one hundred dollars per capita, an enormous sum for the time. But it may not seem
such a great amount if we consider that improvements allowed steamboats to remain practica
for most commercial transport in Canada until the mid-nineteenth century.
1. What is the main purpose of the passage?
(A) To contrast travel by steamship and stagecoach
(B) To criticize the level of public debt in nineteenth century Canada
(C) To describe the introduction of steamships in Canada
(D) To show how Canada surpassed the United States in transportation improvements
2. The word "reliable" in line 3 is closest in meaning to which of the following
(A) Quick (B) Safe (C) Dependable (D) Luxurious
3. Which of the following can be inferred from the passage about stagecoach travel in
Canada in the 1831's?
(A) It was reasonably comfortable. (B) It was extremely efficient.
(C) It was not popular. (D) It was very practical.
4. According to the passage, when was the Welland Canal opened?
(A) 1807 (B) 1809 (C) 1825 (D) 1829
5. The word "sum" in line 9 is closest in meaning to which of the following?
(A) Size (B) Cost (C) Payment (D) Amount
6. According to the passage, steamships became practical means of transportation in
Canada because of
(A) improvements in the waterways (B) large subsidies from John Molson
(C) a relatively small population (D) the lack of alternate means
II- Choose the best definition for the underlined word: (4x2= 8 marks
1- Although Zachary is much too inexperienced for the managerial position, he is a willful young
man and <u>obdurately</u> refuses to with- draw his application.
foolishly b. reluctantly c. constantly d. stubbornly
2- Mr. Powers was so gullible that he believed even the most outland- ish excuses of his
insincere employees. a. intelligent b. naïve c. dishonest d. critical
3 -When people heard that timid Bob had taken up skydiving, they were $\underline{incredulous}$.

c. convinced

b. outraged

a. fearful

d. disbelieving

ثانيا التفاضل: أجب عن إلأسئلة الآتية: (خمس درجات لكل فقرة)

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أنظر بقية الأسئلة في الخلف

	-	c. disputed	d. developed
III- Choose the b	est topic sen	tence for the following	(4x3=12 Marks)
but always it rais a. The rain make	ned. But the s me gloomy.	the afternoons. It poure good news is we won't b. Thi	ned in April; it rained in May. It rained ed, it drizzled, it showered, it misted—have a drought this summer. s spring was the rainiest on record.
Gardening is my Unfortunately, t	ather is usua hobby and I he davs pass	. I enjoy illy sunny and hot, so I spend many summer d too quickly in summer	summer sports like water skiing and can go to the beach almost every day. ays working in my garden.
and build new ro such as trash co poor citizens of not raised soon.	eads. We also llection. Fina the city. It is	. First of a need more to pay teac ally, more tax money is clear that the city wil	ite season. c) Summer is too short. II, we need money to repair old roads hers' salaries and to pay for services needed to give financial help to the have serious problems if taxes are h. c) City taxes pay for new roads.
of the university and location. Fix you can afford to a) It is expensive b) There are severed.	r's education hally, you mu o go to schoo to attend a un ral factors to o	One the all program. You also no also not be sure to consider	aing you must consider is the quality sed to think about the school's size the university's tuition to make sure ates.
	noney. This is	a (simple sentence - in	(6x3=18 marks) dependent clause – dependent clause) omma splice – compound sentence –
	ead my paper	she said it was excellent	. This is a (simple sentence – run-on –
	chers (is - ar	e – am) going to leave the	e school.
-		my major field of study.	work of the other transfer eigens time to be easily

Best Wishes Dr. Marwa M. Abdelmotaleb



Second Semester - Final Exam - May 2018

Course: English Language (1)
Time Allowed: Two Hours
Total Score: 50 Marks

Date: 22-5-2018

I-Read the following passage, then answer the questions below: (6x2=12 marks)
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steamship in Canada (then called British North America) in 1809. By the 1830's dozens of steam
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أنظر بقية الأسئلة في الخلف



Second Semester – Final Exam – May 2018

Course: English Language (2)
Time Allowed: Two Hours
Total Score: 50 Marks

Date: 22-5-2018

I-Read the following passage, then answer the qu	estions below:	(5x2=10 marks
Steamships were first introduced into the United Stasteamship in Canada (then called British North Ameroessels were in use in Canada. They offered the trafacilities-a welcome alternative to stagecoach travel described as wretched. This commitment to dependent the investment of millions of dollars for the improconstruction of canals and lock systems. The Lack important systems, were opened in 1825 and 1829 Lower Canada were united into the Province of Canamore than one hundred dollars per capita, an enorm such a great amount if we consider that improvement	ites in 1807, and John rica) in 1809. By the 1 veler reliable transpol, which at the best of able river transport be ovement of waterway hine and Welland can b, respectively. By the ada in 1841. The publications sum for the time	Molson built the first 830's dozens of steam retation in comfortable of times could only became entrenched with swhich included the nals, two of the most time that Upper and ic debt for canals was a But it may not seen
for most commercial transport in Canada until the n		
1. The word "reliable" in line 3 is closest in meaning		
(A) Quick (B) Safe (C) Dependa		
2. Which of the following can be inferred from	the passage about	stagecoach travel in
Canada in the 1831's?		al to a basic of the
(A) It was reasonably comfortable.	\ /	remely efficient.
(C) It was not popular.	(D) It was ve	ry practical.
3. According to the passage, when was the Wellar		han a see that
	1825	(D) 1829
4. The word "sum" in line 9 is closest in meaning		
(A) Size (B) Cost (C) I	Payment	(D) Amount
5. According to the passage, steamships becan	ne practical means	of transportation is
Canada because of	(D) 1	Constitution Malaga
(A) improvements in the waterways	(B) large subsidies	
(C) a relatively small population	(D) the lack of alter	nate means
II- Complete using the suitable homophones.		(2x10=20 marks)
A. "be" and "bee":		
1. A stung me at recess today.		
2. She is supposed to at work today.		
3. I laughed when Mom said I was "Busy as a	, , ,	
4. Hurry! I don't want to late.		
B. "cent" and "scent" and "sent"		
5. Tracy her mom flowers for her birthe	dav.	
6. Vanilla is my favorite	<i></i>	
7. A penny is worth one		
8. The from her perfume was strong.		
9. She was one short to pay for ice cream.		

III. Choose the correct	answer.	Charles ex	(2x5=10 marks)
1. Which of these is the	correct spelling? We had a		
A) disagreement	B) dissagreement	C) disagreåment	
2. What does the word	tireless mean?		
A) always feeling tired	B) never feeling tired	C) feeling less tired	than someone else
3. If you heard that a ba	and had re-formed, what would	this mean?	
A) formed again	B) formed for the first time	C) formed for the I	ast time
4. Which of these words	s cannot be made into another v	word by adding the pr	efix 'sub'?
A) way	B) marine	C) book	
5. What does the prefix	'dis' do to the word appeared in	n this sentence?	
The cat disappeared bet			
	it appeared bigger than before.		
B) It tells you that the ca			
	t appeared to be further away.		
,			
IV- Choose the informati	ion that is most similar to the ori	iginal sentence.	(2x5=10 marks)
1. We agreed that John	and Jim were to buy the food.		
1) John and Jim would a	gree to buy the food for us.	2 () ()	
2) John, Jim and we agree	ee to buy the food.		
3) We agree John and Jir	m would to bought the food.		et (City) and ref. p., per
	osen by us to by the food.		
_	than, China, people use bambo		
-	I the China se bamboo for the san		
	bamboo for more decoration tha		
-	e bamboo for decoration than the		
	, but also the Chinese, use bambo	oo for decoration.	
3. I am old enough to b			
1) Your mother and I are	Total I am the function of an extra state of the state of		10 10 10 10 10 10 10 10 10 10 10 10 10 1
2) Your mother and I are	•		
3) I am about the same a		magazani obigita	
4) I am not nearly as old		alauitu, afita maami	nools English
	the United States in that the many the United States speaks Engl		peak English.
•	nd the United States speaks Engl		languaga

- 2) Some people in Canada speak English but everyone in the States speaks that language.
- 3) Some people in the State speak English but everyone in Canada speaks that language.
 4) Some people in Canada and the United States speak those languages other than English.
- 5. Many of the problems one finds in city and suburban life result from a lack of proper planning.
- 1) We did not properly plan so there are some problems that we have.
- 2) We did not properly plan and we still do not have any problems.
- 3) We have properly planned so there are no problems.
- 4) We have properly planned but there are still many problems.



Second Semester – Final Exam – May 2018

Course: English Language (2)
Time Allowed: Two Hours
Total Score: 50 Marks

Date: 22-5-2018

I-Read the following passage, then answer the qu	estions below:	(5x2=10 marks
Steamships were first introduced into the United Stasteamship in Canada (then called British North Ameroessels were in use in Canada. They offered the trafacilities-a welcome alternative to stagecoach travel described as wretched. This commitment to dependent the investment of millions of dollars for the improconstruction of canals and lock systems. The Lack important systems, were opened in 1825 and 1829 Lower Canada were united into the Province of Canamore than one hundred dollars per capita, an enorm such a great amount if we consider that improvement	ites in 1807, and John rica) in 1809. By the 1 veler reliable transpol, which at the best of able river transport be ovement of waterway hine and Welland can b, respectively. By the ada in 1841. The publications sum for the time	Molson built the first 830's dozens of steam retation in comfortable of times could only became entrenched with swhich included the nals, two of the most time that Upper and ic debt for canals was a But it may not seen
for most commercial transport in Canada until the n		
1. The word "reliable" in line 3 is closest in meaning		
(A) Quick (B) Safe (C) Dependa		
2. Which of the following can be inferred from	the passage about	stagecoach travel in
Canada in the 1831's?		al to a basic of the
(A) It was reasonably comfortable.	\ /	remely efficient.
(C) It was not popular.	(D) It was ve	ry practical.
3. According to the passage, when was the Wellar		han a see that
	1825	(D) 1829
4. The word "sum" in line 9 is closest in meaning		
(A) Size (B) Cost (C) I	Payment	(D) Amount
5. According to the passage, steamships becan	ne practical means	of transportation is
Canada because of	(D) 1	Constitution Malaga
(A) improvements in the waterways	(B) large subsidies	
(C) a relatively small population	(D) the lack of alter	nate means
II- Complete using the suitable homophones.		(2x10=20 marks)
A. "be" and "bee":		
1. A stung me at recess today.		
2. She is supposed to at work today.		
3. I laughed when Mom said I was "Busy as a	, , ,	
4. Hurry! I don't want to late.		
B. "cent" and "scent" and "sent"		
5. Tracy her mom flowers for her birthe	dav.	
6. Vanilla is my favorite	<i></i>	
7. A penny is worth one		
8. The from her perfume was strong.		
9. She was one short to pay for ice cream.		

Department of Mathematics	
Faculty of Science	-



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	الرياضي

امتحان نهائى للفصل الدراسي الثانى ٢٠١٧ / ٢٠١٨ الموقة: اولى علوم – شعبة كيماء صناعية الفرقة: اولى علوم – شعبة كيماء صناعية التاريخ: ١١/٥ / ٢٠١٨ م

First: The integration: Find the following integrals: (25 mark)

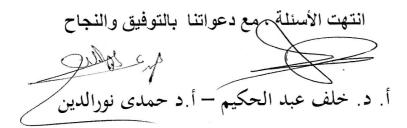
(1) (a)
$$\int \sin^5 x \, dx$$
, (b) $\int 3^{2x^2-1} x \, dx$, (c) $\int \frac{x^2+3}{x-1} \, dx$

(2)
$$(a) \int e^x \cos x \, dx$$
, $(b) \int_0^1 \sqrt{1 - x^2} \, dx$, $(c) \int_0^\infty x e^x \, dx$

- (3) Find the area bounded by: $y = \sqrt{x}$ and $y = x^2$.
- (4) Find the volume V of the sclid formed by the revolving region bounded by the graphs of y = x + 2 and $y = x^2$ about the x- axis.

Second: Analytic geometry: (25 mark)

- (1) Write the following equation in the cartisian form: $r \cos \left(\theta \frac{\pi}{3}\right) = 6$
- (2) Determine the radius and center of the circle: $r^2 + \sqrt{3} r \cos \theta + r \sin \theta = 27$
- (3) Discuss and sketch the graph of the parabola: $y^2 6y + 2x + 1 = 0$
- (4) Discuss and sketch the graph of the ellipse with foci $\left(\pm \frac{3}{2}, 0\right)$ and its eccentricity= $\frac{1}{2}$.
- (5) Discuss and sketch the graph of the hyperbola with eccentricity= $\frac{\sqrt{7}}{2}$ and distance of the normal focal chord =6.



III. Choose the correct	answer.	Charles ex	(2x5=10 marks)
1. Which of these is the	correct spelling? We had a		
A) disagreement	B) dissagreement	C) disagreåment	
2. What does the word	tireless mean?		
A) always feeling tired	B) never feeling tired	C) feeling less tired	than someone else
3. If you heard that a ba	and had re-formed, what would	this mean?	
A) formed again	B) formed for the first time	C) formed for the I	ast time
4. Which of these words	s cannot be made into another v	word by adding the pr	efix 'sub'?
A) way	B) marine	C) book	
5. What does the prefix	'dis' do to the word appeared in	n this sentence?	
The cat disappeared bet			
	it appeared bigger than before.		
B) It tells you that the ca			
	t appeared to be further away.		
,			
IV- Choose the informati	ion that is most similar to the ori	iginal sentence.	(2x5=10 marks)
1. We agreed that John	and Jim were to buy the food.		
1) John and Jim would a	gree to buy the food for us.	2 () ()	
2) John, Jim and we agree	ee to buy the food.		
3) We agree John and Jir	m would to bought the food.		et (City) and ref. p., per
	osen by us to by the food.		
_	than, China, people use bambo		
-	I the China se bamboo for the san		
	bamboo for more decoration tha		
-	e bamboo for decoration than the		
	, but also the Chinese, use bambo	oo for decoration.	
3. I am old enough to b			
1) Your mother and I are	Total I am the fine size of a second and the second		10 10 10 10 10 10 10 10 10 10 10 10 10 1
2) Your mother and I are	•		
3) I am about the same a		magazani obigita	
4) I am not nearly as old		alauitu, afita maami	nools English
	the United States in that the many the United States speaks Engl		peak English.
•	nd the United States speaks Engl		languaga

- 2) Some people in Canada speak English but everyone in the States speaks that language.
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- 1) We did not properly plan so there are some problems that we have.
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- 3) We have properly planned so there are no problems.
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Second Semester – Final Exam – May 2018

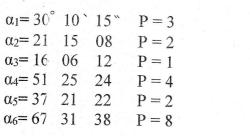
Course: English Language (2)
Time Allowed: Two Hours
Total Score: 50 Marks

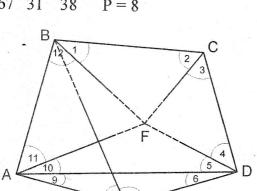
Date: 22-5-2018

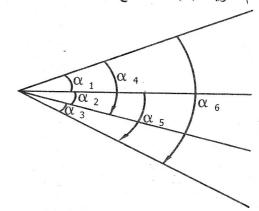
I-Read the following passage, then answer the qu	estions below:	(5x2=10 marks
Steamships were first introduced into the United Stasteamship in Canada (then called British North Ameroessels were in use in Canada. They offered the trafacilities-a welcome alternative to stagecoach travel described as wretched. This commitment to dependent the investment of millions of dollars for the improconstruction of canals and lock systems. The Lack important systems, were opened in 1825 and 1829 Lower Canada were united into the Province of Canamore than one hundred dollars per capita, an enorm such a great amount if we consider that improvement	ites in 1807, and John rica) in 1809. By the 1 veler reliable transpol, which at the best of able river transport be ovement of waterway hine and Welland can b, respectively. By the ada in 1841. The publications sum for the time	Molson built the first 830's dozens of steam retation in comfortable of times could only became entrenched with swhich included the nals, two of the most time that Upper and ic debt for canals was a But it may not seen
for most commercial transport in Canada until the n		
1. The word "reliable" in line 3 is closest in meaning		
(A) Quick (B) Safe (C) Dependa		
2. Which of the following can be inferred from	the passage about	stagecoach travel in
Canada in the 1831's?		al to a basic of the
(A) It was reasonably comfortable.	\ /	remely efficient.
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	1825	(D) 1829
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(A) Size (B) Cost (C) I	Payment	(D) Amount
5. According to the passage, steamships becan	ne practical means	of transportation is
Canada because of	(D) 1	Constitution Malaga
(A) improvements in the waterways	(B) large subsidies	
(C) a relatively small population	(D) the lack of alter	nate means
II- Complete using the suitable homophones.		(2x10=20 marks)
A. "be" and "bee":		
1. A stung me at recess today.		
2. She is supposed to at work today.		
3. I laughed when Mom said I was "Busy as a	, , ,	
4. Hurry! I don't want to late.		
B. "cent" and "scent" and "sent"		
5. Tracy her mom flowers for her birthe	dav.	
6. Vanilla is my favorite	<i></i>	
7. A penny is worth one		
8. The from her perfume was strong.		
9. She was one short to pay for ice cream.		

السؤال الأول: (أ = 0.7% و ب = 0.7% من الدرجة)

(أ) استخدام الطريقة البسيطة لتصحيح الزوايا المرصودة والمدونة كما يلي باستخدام الاوزان المعطاه.







(ب) الشكل التالى يوضح جزء من شبكة مثلثات مرصودة الزوايا، المطلوب حساب عدد ونوع الشروط في الشكل حسابيا وبيانيا ثم كتابة معادلة شرطية واحدة لكل نوع من الشروط الموجودة.

السؤال الثاني: (أ = ٥% و ب = ٢٠% و ج = ٢٥% من الدرجة)

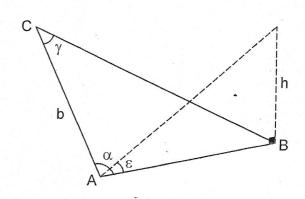
(أ) اذكر باختصار الاختلافات الأساسية بين المساحة الجيوديسية والمساحة المستوية.

(ب) نقطتان أ ، ب المسافة بينهم ٦٣,١ كم وارتفاع القمة (أ) هو ٩٤,٥ متر ، وارتفاع القمة (ب) هو ٢٥,٣ مترا. فإذا وجدت قمة اخرى (ج) ارتفاعها ٢٢,٧ متر على نفس الخط بين (أ ، ب) وعلى مسافة ٤٩,٢ كم من القمة (أ). ابحث وجود تبادل رؤية بين (أ ، ب) ، وفي حالة عدم وجود تبادل رؤية ابحث عن حل مناسب يسمح بتبادل الرؤية بين النقطتين.

(-1) النقطتان -1 لهما نفس المنسوب. تم عمل القياسات التالية بغرض تحديد ارتفاع الهدف -1 كما هو موضح بالشكل التالى. -1 عبارة عن زاويتين افقيتين -1 عبارة عن زاوية راسية. احسب كلا من -1 و -1 من -1 و -1 من -1 التالى.

b =
$$128.56 \pm 0.008$$
 m
 $\alpha = 82^{\circ} \quad 41^{\circ} \quad 15^{\circ} \quad \pm \quad 10^{\circ}$
 $\gamma = 84 \quad 20 \quad 10 \quad \pm \quad 15^{\circ}$
 $\epsilon = 15 \quad 05 \quad 15 \quad \pm \quad 20^{\circ}$

$$h = \frac{b \sin \gamma \tan \varepsilon}{\sin(\alpha + \gamma)}$$



Department of Mathematics	
Faculty of Science	-



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	الرياضي

امتحان نهائى للفصل الدراسي الثانى ٢٠١٧ / ٢٠١٨ الموقة: اولى علوم – شعبة كيماء صناعية الفرقة: اولى علوم – شعبة كيماء صناعية التاريخ: ١١/٥ / ٢٠١٨ م

First: The integration: Find the following integrals: (25 mark)

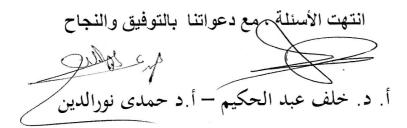
(1) (a)
$$\int \sin^5 x \, dx$$
, (b) $\int 3^{2x^2-1} x \, dx$, (c) $\int \frac{x^2+3}{x-1} \, dx$

(2)
$$(a) \int e^x \cos x \, dx$$
, $(b) \int_0^1 \sqrt{1 - x^2} \, dx$, $(c) \int_0^\infty x e^x \, dx$

- (3) Find the area bounded by: $y = \sqrt{x}$ and $y = x^2$.
- (4) Find the volume V of the sclid formed by the revolving region bounded by the graphs of y = x + 2 and $y = x^2$ about the x- axis.

Second: Analytic geometry: (25 mark)

- (1) Write the following equation in the cartisian form: $r \cos \left(\theta \frac{\pi}{3}\right) = 6$
- (2) Determine the radius and center of the circle: $r^2 + \sqrt{3} r \cos \theta + r \sin \theta = 27$
- (3) Discuss and sketch the graph of the parabola: $y^2 6y + 2x + 1 = 0$
- (4) Discuss and sketch the graph of the ellipse with foci $\left(\pm \frac{3}{2}, 0\right)$ and its eccentricity= $\frac{1}{2}$.
- (5) Discuss and sketch the graph of the hyperbola with eccentricity= $\frac{\sqrt{7}}{2}$ and distance of the normal focal chord =6.



III. Choose the correct	answer.	Charles ex	(2x5=10 marks)
1. Which of these is the	correct spelling? We had a		
A) disagreement	B) dissagreement	C) disagreåment	
2. What does the word	tireless mean?		
A) always feeling tired	B) never feeling tired	C) feeling less tired	than someone else
3. If you heard that a ba	and had re-formed, what would	this mean?	
A) formed again	B) formed for the first time	C) formed for the I	ast time
4. Which of these words	s cannot be made into another v	word by adding the pr	efix 'sub'?
A) way	B) marine	C) book	
5. What does the prefix	'dis' do to the word appeared in	n this sentence?	
The cat disappeared bet			
	it appeared bigger than before.		
B) It tells you that the ca			
	t appeared to be further away.		
,			
IV- Choose the informati	ion that is most similar to the ori	iginal sentence.	(2x5=10 marks)
1. We agreed that John	and Jim were to buy the food.		
1) John and Jim would a	gree to buy the food for us.	2 () ()	
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	osen by us to by the food.		
_	than, China, people use bambo		
-	I the China se bamboo for the san		
	bamboo for more decoration tha		
-	e bamboo for decoration than the		
	, but also the Chinese, use bambo	oo for decoration.	
3. I am old enough to b			
1) Your mother and I are	Total I am the fine size of a second and the second		10 10 10 10 10 10 10 10 10 10 10 10 10 1
2) Your mother and I are	•		
3) I am about the same a		magazani obigita	
4) I am not nearly as old		alauitu, afita maami	nools English
	the United States in that the many the United States speaks Engl		peak English.
•	nd the United States speaks Engl		languaga

- 2) Some people in Canada speak English but everyone in the States speaks that language.
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- 3) We have properly planned so there are no problems.
- 4) We have properly planned but there are still many problems.



Second Semester – Final Exam – May 2018

Course: English Language (2)
Time Allowed: Two Hours
Total Score: 50 Marks

Date: 22-5-2018

I-Read the following passage, then answer the qu	estions below:	(5x2=10 marks
Steamships were first introduced into the United Stasteamship in Canada (then called British North Ameroessels were in use in Canada. They offered the trafacilities-a welcome alternative to stagecoach travel described as wretched. This commitment to dependent the investment of millions of dollars for the improconstruction of canals and lock systems. The Lack important systems, were opened in 1825 and 1829 Lower Canada were united into the Province of Canamore than one hundred dollars per capita, an enorm such a great amount if we consider that improvement	ites in 1807, and John rica) in 1809. By the 1 veler reliable transpol, which at the best of able river transport be ovement of waterway hine and Welland can b, respectively. By the ada in 1841. The publications sum for the time	Molson built the first 830's dozens of steam retation in comfortable of times could only became entrenched with swhich included the nals, two of the most time that Upper and ic debt for canals was a But it may not seen
for most commercial transport in Canada until the n		
1. The word "reliable" in line 3 is closest in meaning		
(A) Quick (B) Safe (C) Dependa		
2. Which of the following can be inferred from	the passage about	stagecoach travel in
Canada in the 1831's?		al to a basic of the
(A) It was reasonably comfortable.	\ /	remely efficient.
(C) It was not popular.	(D) It was ve	ry practical.
3. According to the passage, when was the Wellar		han a second district
	1825	(D) 1829
4. The word "sum" in line 9 is closest in meaning		
(A) Size (B) Cost (C) I	Payment	(D) Amount
5. According to the passage, steamships becan	ne practical means	of transportation is
Canada because of	(D) 1	Constitution Malaga
(A) improvements in the waterways	(B) large subsidies	
(C) a relatively small population	(D) the lack of alter	nate means
II- Complete using the suitable homophones.		(2x10=20 marks)
A. "be" and "bee":		
1. A stung me at recess today.		
2. She is supposed to at work today.		
3. I laughed when Mom said I was "Busy as a	, , ,	
4. Hurry! I don't want to late.		
B. "cent" and "scent" and "sent"		
5. Tracy her mom flowers for her birthe	dav.	
6. Vanilla is my favorite	<i></i>	
7. A penny is worth one		
8. The from her perfume was strong.		
9. She was one short to pay for ice cream.		



Final Exam for Level 1

Subject: Mathematical and Statistical

Packages, MC100

Mathematics Dept.
Faculty of Science
Assiut University

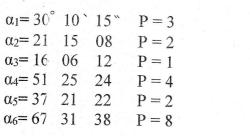
Time: 2 Hours

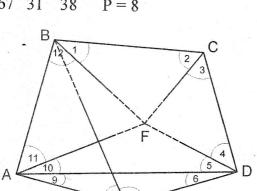
Choose the correct answer and write it in the answer table: Section 1: from 1 to 20 (20 marks)

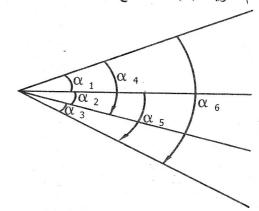
Section					
1. What are common components inside the system unit?					
a) CPU – Po	orts-	b)CPU- CD. –	c) CPU-	d) CPU-Monitor-	
Power Su	ipply	RAM-Mouth	Keyboard- RAM	Ports	
		anipulates raw data i outer system	nto more useful form	and controls the other	
a) CPU		b) Mather board	c) Communication devices	d) control unit	
3d processin			ms when they are not	t being used in	
a) Input device	ces	b) Output devices	c) Primary Storage	d) Secondary Storage	
4are computer		• •	ing data and signals a	among the parts of the	
a) Buses		b)Storages	c) RAM	d) cards	
		city storage and Con lectronically.	sists of several inflex	ible, circular platters	
a) Hard disk		b) Magnetic disk	c) RAM	d) ROM	
6. Touch sc	reen is	considered as			
a) Input devi	ces	b) Output devices	c) Communication devices	d) control unit	
7. Gigabyte=					
a) 1 thousand		b)1 thousand Megabyte	c)1 billion bytes	d) 1 trillion bytes	
8. It is used for very large business, scientific or military application where a computer must handle massive amounts of data or many complicated processes. 9.					
a)Micro		b) Mainframe	c) mini	d) Super	

السؤال الأول: (أ = 0.7% و ب = 0.7% من الدرجة)

(أ) استخدام الطريقة البسيطة لتصحيح الزوايا المرصودة والمدونة كما يلي باستخدام الاوزان المعطاه.







(ب) الشكل التالى يوضح جزء من شبكة مثلثات مرصودة الزوايا، المطلوب حساب عدد ونوع الشروط في الشكل حسابيا وبيانيا ثم كتابة معادلة شرطية واحدة لكل نوع من الشروط الموجودة.

السؤال الثاني: (أ = ٥% و ب = ٢٠% و ج = ٢٥% من الدرجة)

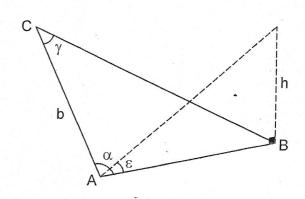
(أ) اذكر باختصار الاختلافات الأساسية بين المساحة الجيوديسية والمساحة المستوية.

(ب) نقطتان أ ، ب المسافة بينهم ٦٣,١ كم وارتفاع القمة (أ) هو ٩٤,٥ متر ، وارتفاع القمة (ب) هو ٢٥,٣ مترا. فإذا وجدت قمة اخرى (ج) ارتفاعها ٢٢,٧ متر على نفس الخط بين (أ ، ب) وعلى مسافة ٤٩,٢ كم من القمة (أ). ابحث وجود تبادل رؤية بين (أ ، ب) ، وفي حالة عدم وجود تبادل رؤية ابحث عن حل مناسب يسمح بتبادل الرؤية بين النقطتين.

(-1) النقطتان -1 لهما نفس المنسوب. تم عمل القياسات التالية بغرض تحديد ارتفاع الهدف -1 كما هو موضح بالشكل التالى. -1 عبارة عن زاويتين افقيتين -1 عبارة عن زاوية راسية. احسب كلا من -1 و -1 من -1 و -1 من -1 التالى.

b =
$$128.56 \pm 0.008$$
 m
 $\alpha = 82^{\circ} \quad 41^{\circ} \quad 15^{\circ} \quad \pm \quad 10^{\circ}$
 $\gamma = 84 \quad 20 \quad 10 \quad \pm \quad 15^{\circ}$
 $\epsilon = 15 \quad 05 \quad 15 \quad \pm \quad 20^{\circ}$

$$h = \frac{b \sin \gamma \tan \varepsilon}{\sin(\alpha + \gamma)}$$



Department of Mathematics	
Faculty of Science	-



البياضي	0
	الرياضي

امتحان نهائى للفصل الدراسي الثانى ٢٠١٧ / ٢٠١٨ الموقة: اولى علوم – شعبة كيماء صناعية الفرقة: اولى علوم – شعبة كيماء صناعية التاريخ: ١١/٥ / ٢٠١٨ م

First: The integration: Find the following integrals: (25 mark)

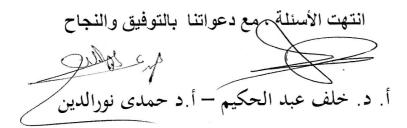
(1) (a)
$$\int \sin^5 x \, dx$$
, (b) $\int 3^{2x^2-1} x \, dx$, (c) $\int \frac{x^2+3}{x-1} \, dx$

(2)
$$(a) \int e^x \cos x \, dx$$
, $(b) \int_0^1 \sqrt{1 - x^2} \, dx$, $(c) \int_0^\infty x e^x \, dx$

- (3) Find the area bounded by: $y = \sqrt{x}$ and $y = x^2$.
- (4) Find the volume V of the sclid formed by the revolving region bounded by the graphs of y = x + 2 and $y = x^2$ about the x- axis.

Second: Analytic geometry: (25 mark)

- (1) Write the following equation in the cartisian form: $r \cos \left(\theta \frac{\pi}{3}\right) = 6$
- (2) Determine the radius and center of the circle: $r^2 + \sqrt{3} r \cos \theta + r \sin \theta = 27$
- (3) Discuss and sketch the graph of the parabola: $y^2 6y + 2x + 1 = 0$
- (4) Discuss and sketch the graph of the ellipse with foci $\left(\pm \frac{3}{2}, 0\right)$ and its eccentricity= $\frac{1}{2}$.
- (5) Discuss and sketch the graph of the hyperbola with eccentricity= $\frac{\sqrt{7}}{2}$ and distance of the normal focal chord =6.



III. Choose the correct	answer.	Charles ex	(2x5=10 marks)
1. Which of these is the	correct spelling? We had a		
A) disagreement	B) dissagreement	C) disagreåment	
2. What does the word	tireless mean?		
A) always feeling tired	B) never feeling tired	C) feeling less tired	than someone else
3. If you heard that a ba	and had re-formed, what would	this mean?	
A) formed again	B) formed for the first time	C) formed for the I	ast time
4. Which of these words	s cannot be made into another v	word by adding the pr	efix 'sub'?
A) way	B) marine	C) book	
5. What does the prefix	'dis' do to the word appeared in	n this sentence?	
The cat disappeared bet			
	it appeared bigger than before.		
B) It tells you that the ca			
	t appeared to be further away.		
,			
IV- Choose the informati	ion that is most similar to the ori	iginal sentence.	(2x5=10 marks)
1. We agreed that John	and Jim were to buy the food.		
1) John and Jim would a	gree to buy the food for us.	2 () ()	
2) John, Jim and we agree	ee to buy the food.		
3) We agree John and Jir	m would to bought the food.		et (City) and ref. p., per
	osen by us to by the food.		
_	than, China, people use bambo		
-	I the China se bamboo for the san		
	bamboo for more decoration tha		
-	e bamboo for decoration than the		
	, but also the Chinese, use bambo	oo for decoration.	
3. I am old enough to b			
1) Your mother and I are	Total I am the fine size of a second and the second		10 10 10 10 10 10 10 10 10 10 10 10 10 1
2) Your mother and I are	•		
3) I am about the same a		magazani obigita	
4) I am not nearly as old		alauitu, afita maami	nools English
	the United States in that the many the United States speaks Engl		peak English.
•	nd the United States speaks Engl		languaga

- 2) Some people in Canada speak English but everyone in the States speaks that language.
- 3) Some people in the State speak English but everyone in Canada speaks that language.
 4) Some people in Canada and the United States speak those languages other than English.
- 5. Many of the problems one finds in city and suburban life result from a lack of proper planning.
- 1) We did not properly plan so there are some problems that we have.
- 2) We did not properly plan and we still do not have any problems.
- 3) We have properly planned so there are no problems.
- 4) We have properly planned but there are still many problems.



Second Semester – Final Exam – May 2018

Course: English Language (2) Time Allowed: Two Hours Total Score: 50 Marks

Date: 22-5-2018

1-Read the following passage, then answer the ques	CAZ-10 marks
Steamships were first introduced into the United State	es in 1807, and John Molson built the firs
steamship in Canada (then called British North Americ	
vessels were in use in Canada. They offered the trave	eler reliable transportation in comfortable
facilities-a welcome alternative to stagecoach travel,	
described as wretched. This commitment to dependab	le river transport became entrenched with
the investment of millions of dollars for the improv	
construction of canals and lock systems. The Lachi	
important systems, were opened in 1825 and 1829,	
Lower Canada were united into the Province of Canad	
more than one hundred dollars per capita, an enormo	
such a great amount if we consider that improvement	
for most commercial transport in Canada until the mic	
1. The word "reliable" in line 3 is closest in meaning	
	le (D) Luxurious
2. Which of the following can be inferred from t	he passage about stagecoach travel ir
Canada in the 1831's?	e en en en et bleuwigst kaj en grant ja et et
(A) It was reasonably comfortable.	(B) It was extremely efficient.
(C) It was not popular.	(D) It was very practical.
3. According to the passage, when was the Welland	
(A) 1807 (B) 1809 (C) 18	
4. The word "sum" in line 9 is closest in meaning t	
	yment (D) Amount
5. According to the passage, steamships became	practical means of transportation in
Canada because of	(D) 1 1 11 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(A) improvements in the waterways	(B) large subsidies from John Molson
(C) a relatively small population	(D) the lack of alternate means
	(0.10.00
II- Complete using the suitable <u>homophones</u> .	(2x10=20 marks)
A. "be" and "bee":	
1. A stung me at recess today.	
2. She is supposed to at work today.	
3. I laughed when Mom said I was "Busy as a	33
4. Hurry! I don't want to late.	
B. "cent" and "scent" and "sent"	
	y.
6. Vanilla is my favorite	
7. A penny is worth one	
8. The from her perfume was strong.	
9. She was one short to pay for ice cream.	

10			
10is co	onsidered as operatin	g system	
a) windows	b) linux	c)Unix	d) all pervious solution
11 convert machine langua	t application program	ns and any other software trols the computer's o	vare programs into the perations.
a)utility Program	b) Language Translater	c) Network	d) comments
12 transfer at once.	ranslates <i>high-level</i> la	anguage program into	machine-language all
a) function	b)Compilers	c) Assemblers	d) Interpreters
13when	you run the progran	n, the program give i	ncorrect result.
a)logic error	b) syntax error	c)syntax error	d)others
14. Let $x = \begin{bmatrix} 2 \\ 5 \\ 6 \end{bmatrix}$. How	w can we compute the	$ \begin{array}{c} 4 \\ 25 \\ 36 \end{array} $	
a) x*x	b) x.^(2)	c) x^2	d) x**x
15. Which Matlab co	ommands create a ve	ector of the even who	le numbers from 99
a)98:-2:10	b) 98:10,2	c)10:2:99	d) 99:10:-2
16. In Matlab, which statement of an I	n of the following sy F statement?	mbols cannot be used	l in the condition
a) >	b) <=	c) ==	d) =
17. The number in b	inary sytem is called	1	
a) Bit	b) bin	c) byte	d) bsys
18. In flow chart, w	e can express to dec	ision and start with	
a)	b)	c)	d) <
19. When we use cal is considered as .	culate the area of cir	rcle shape with no con	ndition, the algorithm
a)sequence	b)loop	c)branching	d)other
20 comm	and is to delete all v	ariable values.	
a) del	b) clc	c) clear	d) rem



Final Exam for Level 1

Subject: Mathematical and Statistical

Packages, MC100

Mathematics Dept.
Faculty of Science
Assiut University

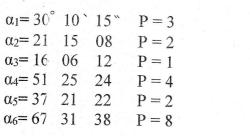
Time: 2 Hours

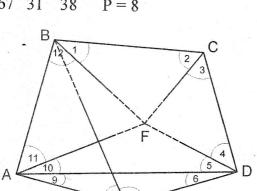
Choose the correct answer and write it in the answer table: Section 1: from 1 to 20 (20 marks)

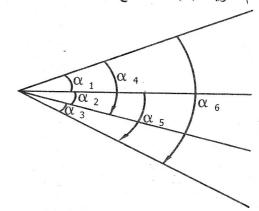
Section					
1. What are common components inside the system unit?					
a) CPU – Po	orts-	b)CPU- CD. –	c) CPU-	d) CPU-Monitor-	
Power Su	ipply	RAM-Mouth	Keyboard- RAM	Ports	
		anipulates raw data i outer system	nto more useful form	and controls the other	
a) CPU		b) Mather board	c) Communication devices	d) control unit	
3d processin			ms when they are not	t being used in	
a) Input device	ces	b) Output devices	c) Primary Storage	d) Secondary Storage	
4are computer		• •	ing data and signals a	among the parts of the	
a) Buses		b)Storages	c) RAM	d) cards	
		city storage and Con lectronically.	sists of several inflex	ible, circular platters	
a) Hard disk		b) Magnetic disk	c) RAM	d) ROM	
6. Touch sc	reen is	considered as			
a) Input devi	ces	b) Output devices	c) Communication devices	d) control unit	
7. Gigabyte=					
a) 1 thousand		b)1 thousand Megabyte	c)1 billion bytes	d) 1 trillion bytes	
8. It is used for very large business, scientific or military application where a computer must handle massive amounts of data or many complicated processes. 9.					
a)Micro		b) Mainframe	c) mini	d) Super	

السؤال الأول: (أ = 0.7% و ب = 0.7% من الدرجة)

(أ) استخدام الطريقة البسيطة لتصحيح الزوايا المرصودة والمدونة كما يلي باستخدام الاوزان المعطاه.







(ب) الشكل التالى يوضح جزء من شبكة مثلثات مرصودة الزوايا، المطلوب حساب عدد ونوع الشروط في الشكل حسابيا وبيانيا ثم كتابة معادلة شرطية واحدة لكل نوع من الشروط الموجودة.

السؤال الثاني: (أ = ٥% و ب = ٢٠% و ج = ٢٥% من الدرجة)

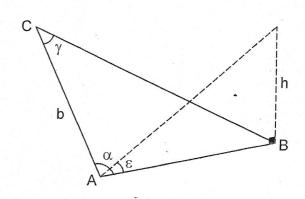
(أ) اذكر باختصار الاختلافات الأساسية بين المساحة الجيوديسية والمساحة المستوية.

(ب) نقطتان أ ، ب المسافة بينهم ٦٣,١ كم وارتفاع القمة (أ) هو ٩٤,٥ متر ، وارتفاع القمة (ب) هو ٢٥,٣ مترا. فإذا وجدت قمة اخرى (ج) ارتفاعها ٢٢,٧ متر على نفس الخط بين (أ ، ب) وعلى مسافة ٤٩,٢ كم من القمة (أ). ابحث وجود تبادل رؤية بين (أ ، ب) ، وفي حالة عدم وجود تبادل رؤية ابحث عن حل مناسب يسمح بتبادل الرؤية بين النقطتين.

(-1) النقطتان -1 لهما نفس المنسوب. تم عمل القياسات التالية بغرض تحديد ارتفاع الهدف -1 كما هو موضح بالشكل التالى. -1 عبارة عن زاويتين افقيتين -1 عبارة عن زاوية راسية. احسب كلا من -1 و -1 من -1 و -1 من -1 التالى.

b =
$$128.56 \pm 0.008$$
 m
 $\alpha = 82^{\circ} \quad 41^{\circ} \quad 15^{\circ} \quad \pm \quad 10^{\circ}$
 $\gamma = 84 \quad 20 \quad 10 \quad \pm \quad 15^{\circ}$
 $\epsilon = 15 \quad 05 \quad 15 \quad \pm \quad 20^{\circ}$

$$h = \frac{b \sin \gamma \tan \varepsilon}{\sin(\alpha + \gamma)}$$



Department of Mathematics	
Faculty of Science	-



البياضي	0
	الرياضي

امتحان نهائى للفصل الدراسي الثانى ٢٠١٧ / ٢٠١٨ الموقة: اولى علوم – شعبة كيماء صناعية الفرقة: اولى علوم – شعبة كيماء صناعية التاريخ: ١١/٥ / ٢٠١٨ م

First: The integration: Find the following integrals: (25 mark)

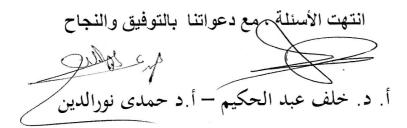
(1) (a)
$$\int \sin^5 x \, dx$$
, (b) $\int 3^{2x^2-1} x \, dx$, (c) $\int \frac{x^2+3}{x-1} \, dx$

(2)
$$(a) \int e^x \cos x \, dx$$
, $(b) \int_0^1 \sqrt{1 - x^2} \, dx$, $(c) \int_0^\infty x e^x \, dx$

- (3) Find the area bounded by: $y = \sqrt{x}$ and $y = x^2$.
- (4) Find the volume V of the sclid formed by the revolving region bounded by the graphs of y = x + 2 and $y = x^2$ about the x- axis.

Second: Analytic geometry: (25 mark)

- (1) Write the following equation in the cartisian form: $r \cos \left(\theta \frac{\pi}{3}\right) = 6$
- (2) Determine the radius and center of the circle: $r^2 + \sqrt{3} r \cos \theta + r \sin \theta = 27$
- (3) Discuss and sketch the graph of the parabola: $y^2 6y + 2x + 1 = 0$
- (4) Discuss and sketch the graph of the ellipse with foci $\left(\pm \frac{3}{2}, 0\right)$ and its eccentricity= $\frac{1}{2}$.
- (5) Discuss and sketch the graph of the hyperbola with eccentricity= $\frac{\sqrt{7}}{2}$ and distance of the normal focal chord =6.



III. Choose the correct	answer.	Charles ex	(2x5=10 marks)
1. Which of these is the	correct spelling? We had a		
A) disagreement	B) dissagreement	C) disagreåment	
2. What does the word	tireless mean?		
A) always feeling tired	B) never feeling tired	C) feeling less tired	than someone else
3. If you heard that a ba	and had re-formed, what would	this mean?	
A) formed again	B) formed for the first time	C) formed for the I	ast time
4. Which of these words	s cannot be made into another v	word by adding the pr	efix 'sub'?
A) way	B) marine	C) book	
5. What does the prefix	'dis' do to the word appeared in	n this sentence?	
The cat disappeared bet			
	it appeared bigger than before.		
B) It tells you that the ca			
	t appeared to be further away.		
,			
IV- Choose the informati	ion that is most similar to the ori	iginal sentence.	(2x5=10 marks)
1. We agreed that John	and Jim were to buy the food.		
1) John and Jim would a	gree to buy the food for us.	2 (A)	
2) John, Jim and we agree	ee to buy the food.		
3) We agree John and Jir	m would to bought the food.		et (City) and ref. p., per
	osen by us to by the food.		
_	than, China, people use bambo		
-	I the China se bamboo for the san		
	bamboo for more decoration tha		
-	e bamboo for decoration than the		
	, but also the Chinese, use bambo	oo for decoration.	
3. I am old enough to b			
1) Your mother and I are	Total I am the fine size of a second and the second		10 10 10 10 10 10 10 10 10 10 10 10 10 1
2) Your mother and I are	•		
3) I am about the same a		magazani obigita	
4) I am not nearly as old		alauitu, afita maami	nools English
	the United States in that the many the United States speaks Engl		peak English.
•	nd the United States speaks Engl		languaga

- 2) Some people in Canada speak English but everyone in the States speaks that language.
- 3) Some people in the State speak English but everyone in Canada speaks that language.
 4) Some people in Canada and the United States speak those languages other than English.
- 5. Many of the problems one finds in city and suburban life result from a lack of proper planning.
- 1) We did not properly plan so there are some problems that we have.
- 2) We did not properly plan and we still do not have any problems.
- 3) We have properly planned so there are no problems.
- 4) We have properly planned but there are still many problems.



Second Semester – Final Exam – May 2018

Course: English Language (2)
Time Allowed: Two Hours
Total Score: 50 Marks

Date: 22-5-2018

I-Read the following passage, then answer the q	uestions below:	(5x2=10 marks
Steamships were first introduced into the United S steamship in Canada (then called British North Am vessels were in use in Canada. They offered the tracellities-a welcome alternative to stagecoach traved described as wretched. This commitment to depend the investment of millions of dollars for the improportant systems, were opened in 1825 and 1825 Lower Canada were united into the Province of Camore than one hundred dollars per capita, an enough a great amount if we consider that improvement	tates in 1807, and Johnerica) in 1809. By the raveler reliable transpeel, which at the best dable river transport between the transport of waterwalchine and Welland cape, respectively. By the mada in 1841. The public remous sum for the time	in Molson built the first 1830's dozens of steam ortation in comfortable of times could only became entrenched with ys which included the anals, two of the most etime that Upper analolic debt for canals was e. But it may not seen
for most commercial transport in Canada until the		
1. The word "reliable" in line 3 is closest in mean		
(A) Quick (B) Safe (C) Depend		
2. Which of the following can be inferred from	n the passage about	stagecoach travel in
Canada in the 1831's?		milko z bez z 197
(A) It was reasonably comfortable.	(B) It was ex	ktremely efficient.
(C) It was not popular.	(D) It was v	ery practical.
3. According to the passage, when was the Well		
	1825	(D) 1829
4. The word "sum" in line 9 is closest in meaning		
(A) Size (B) Cost (C) Payment	(D) Amount
5. According to the passage, steamships beca	ime practical means	of transportation is
Canada because of	(D) 1 1 11	C
(A) improvements in the waterways	(B) large subsidies from John Molson	
(C) a relatively small population	(D) the lack of alte	ernate means
II- Complete using the suitable homophones.		(2x10=20 marks)
A. "be" and "bee":		
1. A stung me at recess today.		
2. She is supposed to at work today.		
3. I laughed when Mom said I was "Busy as a	"	
4. Hurry! I don't want to late.	nor decade at the displacement requirement.	
B. "cent" and "scent" and "sent"		
5. Tracy her mom flowers for her birt	hday	
	inday.	
6. Vanilla is my favorite		
7. A penny is worth one		
8. The from her perfume was strong		
9. She was one short to pay for ice cream.	mucleate and office	



Final Exam for Level 1 Subject: Mathematical and Statistical

Packages, MC100

Mathematics Dept.
Faculty of Science
Assiut University

Time: 2 Hours

Choose the correct answer and write it in the answer table:					
Section 1: from 1 to 20 (20 marks)					
1. What are common components inside the system unit?					
a) CPU – Ports-	b)CPU- CD. –	c) CPU-	d) CPU-Monitor-		
Power Supply	RAM-Mouth	Keyboard- RAM	Ports		
2is may parts of the comp	_	nto more useful form	and controls the other		
a) CPU	b) Mather board	c) Communication	d) control unit		
,	.,	devices	,		
3devices s	tore data and progra	ms when they are not	t being used in		
processing.					
a) Input devices	b) Output devices	c) Primary Storage	d) Secondary Storage		
		•			
4are circuitr	y paths for transmitt	ing data and signals a	among the parts of the		
computer system.					
a) Buses	b)Storages	c) RAM	d) cards		
		sists of several inflex	ible, circular platters		
that store items e			1) 701/		
a) Hard disk	b) Magnetic disk	c) RAM	d) ROM		
6. Touch screen is considered as					
a) Input devices	b) Output devices	c) Communication	d) control unit		
	2	devices			
7. Gigabyte=					
a) 1 thousand bytes	b)1 thousand	c)1 billion bytes	d) 1 trillion bytes		
	Megabyte				
8. It is used for very large business, scientific or military application where a					
computer must handle massive amounts of data or many complicated processes.					
9. a)Micro	b) Mainframe	c) mini	d) Super		
ajiviicio	o) waninanie	C) IIIIII	a) Super		
		6			

10				
10is co	onsidered as operatin	g system		
a) windows	b) linux	c)Unix	d) all pervious solution	
11 convert machine langua	t application program	ns and any other software trols the computer's o	vare programs into the perations.	
a)utility Program	b) Language Translater	c) Network	d) comments	
12 transfer at once.	ranslates <i>high-level</i> la	anguage program into	machine-language all	
a) function	b)Compilers	c) Assemblers	d) Interpreters	
13when	you run the progran	n, the program give i	ncorrect result.	
a)logic error	b) syntax error	c)syntax error	d)others	
14. Let $x = \begin{bmatrix} 2 \\ 5 \\ 6 \end{bmatrix}$. How can we compute the $\begin{bmatrix} 4 \\ 25 \\ 36 \end{bmatrix}$				
a) x*x	b) x.^(2)	c) x^2	d) x**x	
15. Which Matlab co	ommands create a vo	ector of the even who	le numbers from 99	
a)98:-2:10	b) 98:10,2	c)10:2:99	d) 99:10:-2	
16. In Matlab, which statement of an I	n of the following sy F statement?	mbols cannot be used	l in the condition	
a) >	b) <=	c) ==	d) =	
17. The number in b	inary sytem is called	1		
a) Bit	b) bin	c) byte	d) bsys	
18. In flow chart, w	e can express to dec	ision and start with		
a)	b)	c)	d)	
19. When we use cal is considered as .	culate the area of cir	rcle shape with no con	ndition, the algorithm	
a)sequence	b)loop	c)branching	d)other	
20 command is to delete all variable values.				
a) del	b) clc	c) clear	d) rem	



Final Exam for Level 1

Subject: Mathematical and Statistical

Packages, MC100

Mathematics Dept.
Faculty of Science
Assiut University

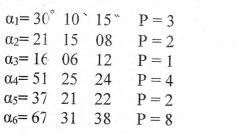
Time: 2 Hours

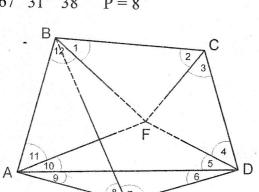
Choose the correct answer and write it in the answer table: Section 1: from 1 to 20 (20 marks)

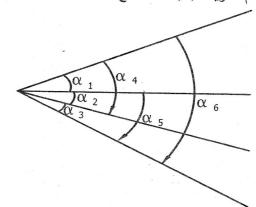
<u> </u>	11 21 11	0111 1 00 20 (
1. What are common components inside the system unit?				
a) CPU-	- Ports-	b)CPU- CD. –	c) CPU-	d) CPU-Monitor-
Power	Supply	RAM-Mouth	Keyboard- RAM	Ports
		anipulates raw data i outer system	nto more useful form	and controls the other
a) CPU		b) Mather board	c) Communication devices	d) control unit
3devices store data and programs when they are not being used in processing.				
a) Input d	evices	b) Output devices	c) Primary Storage	d) Secondary Storage
4are circuitry paths for transmitting data and signals among the parts of the computer system.				
a) Buses		b)Storages	c) RAM	d) cards
5. It has High-capacity storage and Consists of several inflexible, circular platters that store items electronically.				
a) Hard di		b) Magnetic disk	c) RAM	d) ROM
6. Touch screen is considered as				
a) Input d	evices	b) Output devices	c) Communication devices	d) control unit
7. Gigabyte=				
a) 1 thous	and bytes	b)1 thousand Megabyte	c)1 billion bytes	d) 1 trillion bytes
8. It is used for very large business, scientific or military application where a computer must handle massive amounts of data or many complicated processes.9.				
a)Micro		b) Mainframe	c) mini	d) Super

السؤال الاول: (أ = 0.7% و ب = 0.7% من الدرجة)

(أ) استخدام الطريقة البسيطة لتصحيح الزوايا المرصودة والمدونة كما يلي باستخدام الاوزان المعطاه.







(ب) الشكل التالى يوضح جزء من شبكة مثلثات مرصودة الزوايا، المطلوب حساب عدد ونوع الشروط في الشكل حسابيا وبيانيا ثم كتابة معادلة شرطية واحدة لكل نوع من الشروط الموجودة.

السؤال الثانى: (أ = 0% و + = 7% و + = 7% من الدرجة) (أ) اذكر باختصار الاختلافات الأساسية بين المساحة الجيوديسية والمساحة المستوية.

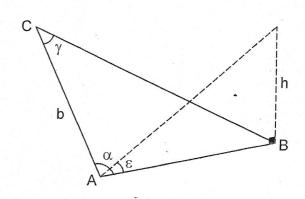
() المحروب ال

(ب) نقطتان أ ، ب المسافة بينهم ٦٣,١ كم وارتفاع القمة (أ) هو ٩٤,٥ متر ، وارتفاع القمة (ب) هو ٢٥,٣ مترا. فإذا وجدت قمة اخرى (ج) ارتفاعها ٢٢,٧ متر على نفس الخط بين (أ ، ب) وعلى مسافة ٤٩,٢ كم من القمة (أ). ابحث وجود تبادل رؤية بين (أ ، ب) ، وفي حالة عدم وجود تبادل رؤية ابحث عن حل مناسب يسمح بتبادل الرؤية بين النقطتين.

(-1) النقطتان -1 لهما نفس المنسوب. تم عمل القياسات التالية بغرض تحديد ارتفاع الهدف -1 كما هو موضح بالشكل التالى. -1 عبارة عن زاويتين افقيتين -1 عبارة عن زاوية راسية. احسب كلا من -1 و -1 من -1 التالى.

b =
$$128.56 \pm 0.008$$
 m
 $\alpha = 82^{\circ} \quad 41^{\circ} \quad 15^{\circ} \quad \pm \quad 10^{\circ}$
 $\gamma = 84 \quad 20 \quad 10 \quad \pm \quad 15^{\circ}$
 $\epsilon = 15 \quad 05 \quad 15 \quad \pm \quad 20^{\circ}$

$$h = \frac{b \sin \gamma \tan \varepsilon}{\sin(\alpha + \gamma)}$$



Department of Mathematics	
Faculty of Science	-



البياضي	0
	الرياضي

امتحان نهائى للفصل الدراسي الثانى ٢٠١٧ / ٢٠١٨ الموقة: اولى علوم – شعبة كيماء صناعية الفرقة: اولى علوم – شعبة كيماء صناعية التاريخ: ١١/٥ / ٢٠١٨ م

First: The integration: Find the following integrals: (25 mark)

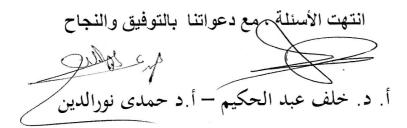
(1) (a)
$$\int \sin^5 x \, dx$$
, (b) $\int 3^{2x^2-1} x \, dx$, (c) $\int \frac{x^2+3}{x-1} \, dx$

(2)
$$(a) \int e^x \cos x \, dx$$
, $(b) \int_0^1 \sqrt{1 - x^2} \, dx$, $(c) \int_0^\infty x e^x \, dx$

- (3) Find the area bounded by: $y = \sqrt{x}$ and $y = x^2$.
- (4) Find the volume V of the sclid formed by the revolving region bounded by the graphs of y = x + 2 and $y = x^2$ about the x- axis.

Second: Analytic geometry: (25 mark)

- (1) Write the following equation in the cartisian form: $r \cos \left(\theta \frac{\pi}{3}\right) = 6$
- (2) Determine the radius and center of the circle: $r^2 + \sqrt{3} r \cos \theta + r \sin \theta = 27$
- (3) Discuss and sketch the graph of the parabola: $y^2 6y + 2x + 1 = 0$
- (4) Discuss and sketch the graph of the ellipse with foci $\left(\pm \frac{3}{2}, 0\right)$ and its eccentricity= $\frac{1}{2}$.
- (5) Discuss and sketch the graph of the hyperbola with eccentricity= $\frac{\sqrt{7}}{2}$ and distance of the normal focal chord =6.



III. Choose the correct	answer.	Charles ex	(2x5=10 marks)
1. Which of these is the	correct spelling? We had a		
A) disagreement	B) dissagreement	C) disagreåment	
2. What does the word	tireless mean?		
A) always feeling tired	B) never feeling tired	C) feeling less tired	than someone else
3. If you heard that a ba	and had re-formed, what would	this mean?	
A) formed again	B) formed for the first time	C) formed for the I	ast time
4. Which of these words	s cannot be made into another v	word by adding the pr	efix 'sub'?
A) way	B) marine	C) book	
5. What does the prefix	'dis' do to the word appeared in	n this sentence?	
The cat disappeared bet			
	it appeared bigger than before.		
B) It tells you that the ca			
	t appeared to be further away.		
,			
IV- Choose the informati	ion that is most similar to the ori	iginal sentence.	(2x5=10 marks)
1. We agreed that John	and Jim were to buy the food.		
1) John and Jim would a	gree to buy the food for us.	2 () ()	
2) John, Jim and we agree	ee to buy the food.		
3) We agree John and Jir	m would to bought the food.		et (City) and ref. p., per
	osen by us to by the food.		
_	than, China, people use bambo		
-	I the China se bamboo for the san		
	bamboo for more decoration tha		
-	e bamboo for decoration than the		
	, but also the Chinese, use bambo	oo for decoration.	
3. I am old enough to b			
1) Your mother and I are	Total I am the function of an extra state of the state of		10 10 10 10 10 10 10 10 10 10 10 10 10 1
2) Your mother and I are	•		
3) I am about the same a		on agazemu i objection	
4) I am not nearly as old		alauitu, afita maami	nools English
	the United States in that the many the United States speaks Engl		peak English.
•	nd the United States speaks Engl		languaga

- 2) Some people in Canada speak English but everyone in the States speaks that language.
- 3) Some people in the State speak English but everyone in Canada speaks that language.
 4) Some people in Canada and the United States speak those languages other than English.
- 5. Many of the problems one finds in city and suburban life result from a lack of proper planning.
- 1) We did not properly plan so there are some problems that we have.
- 2) We did not properly plan and we still do not have any problems.
- 3) We have properly planned so there are no problems.
- 4) We have properly planned but there are still many problems.



10. The scary movie

Second Semester – Final Exam – May 2018

Course: English Language (2) Time Allowed: Two Hours Total Score: 50 Marks

Date: 22-5-2018

I-Read the following passage, then answer the que	stions below:	(5x2=10 marks)
Steamships were first introduced into the United Stat	es in 1807, and Jol	hn Molson built the first
steamship in Canada (then called British North Ameri	ica) in 1809. By the	: 1830's dozens of steam
vessels were in use in Canada. They offered the trav		
facilities-a welcome alternative to stagecoach travel,	which at the best	of times could only be
described as wretched. This commitment to dependal	ole river transport l	pecame entrenched with
the investment of millions of dollars for the impro	vement of waterwa	ays which included the
construction of canals and lock systems. The Lach		
important systems, were opened in 1825 and 1829,		
Lower Canada were united into the Province of Canada	da in 1841. The pu	blic debt for canals was
more than one hundred dollars per capita, an enorm	ous sum for the tir	ne. But it may not seem
such a great amount if we consider that improvemen	its allowed steamb	oats to remain practical
for most commercial transport in Canada until the m	id-nineteenth centu	ıry.
1. The word "reliable" in line 3 is closest in meaning	g to which of the fo	ollowing
(A) Quick (B) Safe (C) Dependat	ole (D) Lu	uxurious
2. Which of the following can be inferred from	the passage abou	t stagecoach travel in
Canada in the 1831's?		und north and a
(A) It was reasonably comfortable.	\ /	xtremely efficient.
(C) It was not popular.		very practical.
3. According to the passage, when was the Welland	d Canal opened?	
(A) 1807 (B) 1809 (C) 18		(D) 1829
4. The word "sum" in line 9 is closest in meaning	to which of the fol	llowing?
(A) Size (B) Cost (C) Pa	ayment	(D) Amount
5. According to the passage, steamships becam	e practical mean	s of transportation in
Canada because of	(m) 1 11	
(A) improvements in the waterways	. , _	es from John Molson
(C) a relatively small population	(D) the lack of alt	ernate means
II- Complete using the suitable homophones.		(2x10=20 marks)
A. "be" and "bee":		
1. A stung me at recess today.		
2. She is supposed to at work today.		
3. I laughed when Mom said I was "Busy as a	"	
4. Hurry! I don't want to late.		
B. "cent" and "scent" and "sent"		
5. Tracy her mom flowers for her birthday	ay.	
6. Vanilla is my favorite		
7. A penny is worth one		
8. The from her perfume was strong.		
9. She was one short to pay for ice cream.		

shivers down my spine!

a)	10*rand+2	0*rand+2 b)8*rand+.				2 c) rand(2,10)							d)2‡rand(2,10)		
			À	Answ	ver T	abl	e Se	ction	ı 1						
		Question	1	2	3	4	5	6	7	8	9	10			
		Answe	r										_		
		Question	1 11	12	13	14	15	16	17	18	19	20			
		Answe													
	k=1;														
a)	for $i = 1$ $k = k + 1$ end $disp(k)$)			c)2	2	D S No Association			(d):	5	• = -		
a)	k=k+ end disp(k)	b) 10 atput of the for $y + 5$;	**************************************	ng co	de is	<u></u>	2				(d):	5			
	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$	b)10 atput of the for the for the formula (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	illowin			: c)	5	L. C	1/		(d)	10			
	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$	b)10 atput of the for the for the formula is the f	illowin			: c)	5	, b=f	īnd(:	x>2)	(d)	10			
a) a)	k=k+ end disp(k) 26 2. The or x = 10; y = 5 if x > 10 y = y end disp(t) 0 3. What	b)10 atput of the for y+5; b) is the value	illowin			c) 1 2	5		ind(:	x>2)	d)) b=	10			
a)	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ 0 3. What 4.	b)10 atput of the for y+5; b) is the value	6 of b v	where	e x=	c) c) c)	5 5 4];	4]			d) b=	[0 0	1 1]		

(10 Marks)

Question 3: Underline the error in each block of code below and correct it:

for $i = 1;100;2$ $x = x + i;$ end $x = x + i;$ $x = 0;$
x=x+i; end = f(x)
shaper = x + i; end output = 7; for j = 100; 2; 2 γ = Y + j; for j = 100; 2; 2 γ = Y + j; γ =
S
i+x=x send β δ δ δ δ δ δ δ δ δ
shend (x) = I(x) δ function [] = f(x) δ f
$\begin{array}{c c} \vdots + x = x \\ \text{bno} \\ \vdots \\ \exists \text{function } [\] = f(x) \\ \vdots \\ \exists \text{outbut} \\ \vdots \\$
$\begin{array}{c} x=x+i;\\ \text{end}\\ \vdots\\ \text{output}=7;\\ \text{end}\\ \text{ond}\\ \text{ond}\\ \text{ond}\\ \end{array}$
$ \begin{array}{c} \mathbf{x} = \mathbf{x} \\ \mathbf$
i = x = x + i; $cond$ $cond$ $f(x) = f(x)$
puə !i+x=x
;i+x=x
7600161 1 101
?0=x ⋅ 7
:[+X=X
$x + \ln tot = \ln tot$
$\text{while } (x \le 100)$
:0=x ·
No Correction

(5 Marks)

Question 4: $\frac{Question \ 4:}{Write \ an \ algorithm \ and \ draw \ a \ flowchart \ to} S = \frac{1}{1} \frac{1}{2} + \frac{1}{2^2} + \frac{1}{3^2} \cdots \cdots + \frac{1}{N^2}$

Question 5:

Read and Put (\forall) or (X) in the answer table:

1) It cannot be written to ROM memory chips

3) Abbreviation of RAM is Read Access Memory 2) A(:,2:3) Refers to the elements in all the rows between columns 2 and 3 of the matrix A.

A sum(A,[],2) returns the summation of each row of matrix A

((1,:)A) The value of c is 6, if $A = \begin{bmatrix} 1 & 2 & 3 \\ 5 & 3 & 0 \\ 1 & 9 & 1 \end{bmatrix}$ and c=sum(A(:,1))

6) 111011+11111 is equal to 1128

The value of b is
$$b = \begin{pmatrix} 5 & 3 \\ 5 & 5 & 7 \end{pmatrix}$$
, where $x = \begin{pmatrix} 1 & 3 & 4 \\ 5 & 3 & 7 \\ 1 & 3 & 6 \end{pmatrix}$; $b = x(2:3,1:2)$

8) Translator translates high-level language into machine-language all at a time

10) RAM and ROM are volatile memory 9) The summation of 253 $_8+614_8=567_{10}$

										Answer
01	6	8	L	9	S	t	ε	7	I	Question
	_		L.,		pje	TI	MSU	V		

Dr. Mohamed Mustafa Darmesk



جامعة أسيوط كلية العلوم متطلب جامعة الفصل الدراسي الثاني 2018-2017

المستوي: الأول المادة: التفكير العلمي كود المادة: 14 م ج الدرجة الكلية: 50 درجة زمن الامتحان: ساعتان



اجب عن السوال الاجباري التالى:
السؤال الأول: اكتب ما تعرفه عن كل مما يأتى:
1- العناصر الأخلاقية التي يُفضل ان تتواجد في شخصية العالِم.
2- التراكمية واتجاهاتها كصفة من صفات التفكير العلمي. دعم اجابتك بذكر امثلة.
 3- "القِدم والشهرة" كإحدى الدعامات التي ترتكز عليها السلطة الفكرية.
 4- الأراء المختلفة التي توضح حقيقة العلاقة بين التكنولوجيا والعلم.
و اجب عن سؤال واحد فقط مما يلى:
السؤال الثاني: قارن بين كل مما يأتي:
1- التفكير الاسطوري والتفكير الخرافي مع ذكر امثلة.
2- الحضارة الشرقية والحضارة اليونانية كحضارات قديمة اثرت بصفة أساسية في
تاريخ التفكير العلمي.
السؤال الثالث: ناقش العبارات التالية:
1- انكار قدرة العقل تمثل عقبة من عقبات التفكير العلمي.
2- يعتبر التنظيم من أهم سمات التفكير العلمي. دعم اجابتك بذكر امثلة.
مع خالص تمنياتي بالنجاح والتوفيق

X = X + 2;

NUM=NUM+1; end	UM+1: end	JM=NU	NI
----------------	-----------	-------	----

		IA	OIV	T	AC	IAT	1,	CI	
							1	• \	١
1	~	+	~~				- 1	h 1	

b) 4 times a) 3 times

c) 5 times

d) 6 times

13. Convert electronic data produced by the computer system and display them in a form that people can understand.

a) Input devices

b) Output devices

c) Monitor

d) Printer

14.is used for short-term storage of data or program instructions

a) Hard disk

b) ROM

c) RAM

d) CPU

15.is used as Programs, Commands and user responses

a) Data

b) Commands

c) Software

d) Instructions

Answer Table

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer															

Question 2:

Write the output of the following blocks of code:

(10 Marks)

No	Code	Output ·
1.	n = 3;	
	while $(n \ge 0)$	
	disp (n * n)	
	n=n-1;	
-	end	
	x = 2; y = 3;	and the state of t
	% disp $(x + y)$	
	i = 1; j = 2; k = 3; m = 2;	a i yarbaniga ke. Mesabak
	disp (k + m < j 3 - j >= k)	
	disp (~m)	
	disp (m <= 99 && k < m)	
11 -0-12	disp (~ (j - m))	
4,	i=1;	
	while (i < 10)	
	i=i+1;	
	if (mod (i, 3) == 0)	
	disp (i)	
	end	
	end	



Assiut University Faculty of Science Mathematics Dept.

Final Exam Introduction to computer Code: (100MC)

Date :20/5/2018 Level: first Time: 2 Hour



	Answer	the	following	questions:
--	--------	-----	-----------	------------

(50 Marks)

Let $x = [2 \ 5 \ 1 \ 6]$. How	ver and write it in the can we compute the	$[2^2 \ 5^2 \ 1^2 \ 6^2]$?	`
a) x*x	b) x.^2	c) x^2	d) x**x
Given the matrix A =	[1 5 7; 2 6 4; 3 8 2], w	hich value is reference	ed by A(2,1)?
a) 8	b) 2	c) 6	d) 5
Which Matlab comma	and is used to execute	a set of commands und	ler condition.
a) while	b) for	c)if	d) disp
What is the correct wa	ay to write the condition	on $y \le x \le z$?	
a) $(y < x) (x < z) $	b) (y < x) && (x < z)	c) $(y < x)$ or $(x < z)$	d) $(y < x)$ and $(x < z)$
When we use the rep	etition, the algorithm i	s considered as	
a) sequence	b) loop	c)branching	d)other
	gorithm in three differ	rent type	
a) sequence,	b) branching,	c) sequence,	d) selection,
selection, branching	calculation and loop	branching and loop	calculation and loop
Transmits signal spec address, input device	ifying whether to read	or write data to or from	m primary storage
	b) Data bus	c) Control bus	d) cards
	es operations in comp	uter	
a) Control unit	b) CPU	c) RAM	d) ROM
The devices provide	connections between t	he computer and com	nunications networks
a) CPU	b) Internet	c) Communication devices	d) control unit
What is the value of	x after the following c	ode? $x = 10$; $%x = 2$	*x+1;
a) 21	b) 10	c) No value	d) Error formula
	on with size 32 bits, wh	nat is equivalent size in	n nibble?
a) 4	b) 32	c) 8	d) No relation
	ne while loop executed	19	
X = 0; NUM = 2		T .	
1 U. I.I.U.I.I. 4	, ~ ~ · · · · · · ·		
while $(X \le 5)$			

Department of Mathematics	(Soc)	قسم الرياضيات				
Faculty of Science	HACK!		كلية العلوم			
7.17	14.14	الفصل الدراسي الثابي	امتحان نهائي			
التاريخ: ٢٠١٨/٥/١٤م		علوم		للفرقة: الأولى		
الزمن: ساعتان		ة الامتحان: ٥٠ درجة	<u> درج</u>	اسم المقرر: ٥٠٠ر		

أولاً: التكامل أجب عن خمسة اسنلة فقط (كل سؤال ٥ درجات)

$$(i)$$
 $\int x^3 \ln x dx$ (ii) $\int \frac{1}{x^2 - 2x + 2} dx$ (۱)

. والمحور السيني
$$x=0$$
 والمستقيمين $x=0$ والمستقيمين $x=0$ والمحور السيني (٢)

. وجد حجم المجسم الدوراني الناشئ عن دوران القطع الناقص
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
 حول المحور السيني (٣)

$$I_n = \int \cos^n x dx$$
 وجد قانون اختزال للتكامل الاتي (٤)

$$x^2 + y^2 = 16$$
 المحدود أوجد مساحة الدائرة (٥) باستخدام التكامل المحدود أوجد مساحة الدائرة

(٦) احسب قيم التكاملات الاتية:

$$(i)\int x^2 \sec^2(x^3) dx$$
 $(ii)\int \frac{1}{1-\sin x} dx$

ثانيا: الهندسة أجب عن خمسة اسئلة فقط (كل سؤال ٥ درجات)

$$(i)r = 4\cos\theta$$
 $(ii)r\sin\theta = 5$: أذكر مع التوضيح بالرسم انواع المنحنيات الممثلة بالمعادلات :

$$r^2 - 4r\cos\left(\theta - \frac{\pi}{4}\right) = 12$$
 أوجد مركز ونصف قطر الدائرة (٢)

اثبت مع الرسم أن مجموعة النقط
$$C = \{(x,y) \in R^2 : x^2 - 8y = 6x - 25\}$$
 تمثل قطع مكافئ واكتب معادلته وعين الدائيات كلا من الرأس والبؤرة ومعادلة الدليل .

- (1,4) أوجد معادلة المماس والعمودي للقطع $y^2 = 16 x$ عند النقطه (1,4).
- (٥) للقطع الناقص $44 = 9x^2 + 16y^2 = 9x^2$ أوجد احداثيات المركز والبؤرتين ومعادلة الدليلين وطول وتره البؤري العمودي .
 - (٦) أوجد معادلة القطع الزائد الذي مركزه نقطة الاصل وينطبق محوراه على محوري الاحداثيات واختلافه المركزي يساوي $\frac{\sqrt{7}}{2}$ وطول وتره البؤري العمودي يساوي $\frac{\sqrt{7}}{2}$

انتهت الأسئلة مع أطيب التمنيات منسق المادة: د. عبد الله الصفتي د . سعاد على حسن

Section	3:	(10)	marks
Dection	J.	110	mans

1. Find the error in the following codes

a)	Function $(a,b)=res(x,$
	for k=100:2:10
	a=x(i)+y(i);
	b = x(i) * y(i);

2. Write an algorithm and draw the flowchart that reads two values, determines the smallest value and prints the smallest value with an identifying message.

The algorithm	
The flowchart	

Best Wishes

Dr. Alaa Fahim

6. Fin	id the outpu	ıt												
For i =1:4	.) -:^2										,			
,	$i) = i^2$ k+1;													
end														
a)16	p(a)	b)[1	491	16]		(c)	[12	3 5]		········	d)[1 16]		
7. exp	o(x) that m	lean .									1			
a)e	xcept x		b	e^x				c)ey	e x		d)others			
8. Co	nvert the fo	ollow	ring t	o the	ir bin	ary e	quiva	alents	s: 154	1.05	7_8			
a) 1101100	0.0101111	b)	1010	11.10	1011	c)	1010	01.10	01111	l d	1)100	01101	100.111	11
9. The	e product of	f 1010	01*10	1 equ	ials	L		-						
a) 110100	1		b) 101	1111			c) 11	0111	l d	1) 111	1111		
10. Wł	nat the valu	ue of	b, if	A =	$\begin{bmatrix} 1 \\ 5 \\ -1 \end{bmatrix}$	2 3 9	$\begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix}$	and b	=min	n(A,	[],2)			
a)[1 2 0]		b) [1 0 -	1]		(c)	[-1 2	0]			d) (others	5	
11. The	e number 7	573 ₈	equ	ivale	nts to	hexa	a-dec	imal	numb	er	1			
a) F7B		b)	E7B			c)	FF7			d) B	5F		
				T	er T	able						,	7	
	Question	1	1	2	3	4	5	6	7	8	9	10		
	Answer	***************************************												
,			L		II		1		1	l	l			
	***************************************											****		

a)10*rand+2	b)8*r	b)8*rand+2				(2,10))	d)2 ⁴ rand(2,10)			
		An	swer '	Γabl	e Se	ction	ı 1				
	Question	1	2 3	4	5	6	7	8	9	10	
	Answer										
	Question	11	12 13	14	15	16	17	18	19	20	
	Answer										
1. What i $k=1;$ for $i=1$	s the value of k	c after	the Ma	tlab c	code	belov	v exe	ecute	es?		
k=k+ end $disp(k)$	<i>i;</i>									8.93	
k=k+ end disp(k)	i;			c)2	2				d) :	5	
k=k+ end $disp(k)$ a) 26	i; b)10 atput of the foll $y+5;$	owing	code is	1	2				d) .	5	
k=k+ end $disp(k)$ 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$	i; b)10 atput of the foll $y+5$; $y+5$;			s:	5	h—f	in do	v~?)	(d)	10	
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k=k+ end $disp(k)$ a) 26 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ a) 0 3. What 4.	i; b)10 atput of the foll $y+5$; $y+5$;	f b wh		c) [1 2	5		ind(:	x>2)	d)) b=	10	1]
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For i =1:4	.) -:^2										,			
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a)[1 2 0]		b) [1 0 -	1]		(c)	[-1 2	0]			d) (others	5	
11. The	e number 7	573 ₈	equ	ivale	nts to	hexa	a-dec	imal	numb	er	1			
a) F7B		b)	E7B			c)	FF7			d) B	5F		
				T	er T	able						,	7	
	Question	1	1	2	3	4	5	6	7	8	9	10		
	Answer	***************************************												
,			L		II		1		1	l	l			
	***************************************											****		

a)10*rand+2	b)8*r	b)8*rand+2				(2,10))	d)2 ⁴ rand(2,10)			
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k=k+ end $disp(k)$	<i>i;</i>									8.93	
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k=k+ end $disp(k)$ a) 26 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ a) 0	i; b)10 Intput of the foll $y+5$;			s:	5	, b=f	ind(:	x>2)	(d)	10	
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7. exp	7. exp(x) that mean													
a)e	xcept x		b	e^x				c)ey	e x		T	C	l)others	
8. Convert the following to their binary equivalents: 154.057 ₈														
a) 1101100.0101111 b) 101011.101011				c)	c) 101001.101111 d)10011				01101	100.111	11			
9. The	e product of	f 1010	01*10	1 equ	ials	L		-						
a) 110100	1		b) 101	1111			c) 11	0111	l d	1) 111	1111		
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11. The	e number 7	573 ₈	equ	ivale	nts to	hexa	a-dec	imal	numb	er	1			
a) F7B		b)	E7B			c)	FF7			d) B	5F		
				T	er T	able						,	7	
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	Answer	***************************************												
,			L		II		1		1	l	l			
	***************************************											****		

a)10*rand+2	b)8*r	b)8*rand+2				c) rand(2,10)					d)2 [‡] rand(2,10)		
		An	swer '	Γabl	e Se	ction	ı 1						
	Question	1	2 3	4	4 5	6	7	8	9	10			
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جامعة اسيوط كلية الهندسة



اجب عن جميع الأسئلة الآتية: ,

السؤال الأول: (٥٠% من الذرجة الكلية)

(أ) قيست أبعاد قطعة أرض مثلثة الشكل فوجد أن مساحتها ١١٧٣٢٥ م ٢ وبمعايرة الشريط المستخدم وجد ان طوله ينقص ٤ سم عن طوله الاسمي (٢٠ م). أحسب مساحة قطعة الارض الحقيقيه.

	(ب) اكمل العبارات التالية:
۱ : ، ، ۲۵۰ می خریطة	١- خريطة ذات مقياس رسم
۱:۰۰۰ هي خريطة	٢- خريطة ذات مقياس رسم
قصبة	٣- الذراع المعماري =
ذراع بلدي مربع	٤ - السهم =

(ج) قيس مسطح قطعة أرض علي الطبيعه و حسب مسطحها فوجد أنه يساوي ($^{\circ}$ س $^{\circ}$ الم $^{\circ}$ في المسطح نفس القطعه علي الخريطه فكان المسطح = $^{\circ}$ المسطح = $^{\circ}$ بوصه مربعه ويسب مقياس رسم الخريط و إذا تم قياس خط ($^{\circ}$ س $^{\circ}$) بشريط طوله ٤٩,٩٤ م فكان طول الطريق ٤٥٣,٧٦ م إحسب طول الطريق الصحيح على الخريطه المذكوره.

السؤال الثاني: (٥٠% من الدرجة الكلية)

- (أ) تحدث باختصار عن اهمية الميزانية مع ذكر ثلاثة تطبيقات على الاقل.
- (ب) أخذت القراءات التاليه عند عمل ميزانيه علي محور طريق فكانت: -

1.63 ، 1.27 ، 1.47 ، 1.27 ، 1.63 ، 1.30 ، 1.35 ، 0.84 ، 1.32 ، 1.14 ، 1.27 ، 1.63 ، 1.63 ، 1.31 ، 2.24 ، 1.14 ، 2.18 ، 0.48 ، 1.35 ، 0.84 ، 1.82 ، 1.47 ، 1.27 ، 1.63 ، 1.32 ، 2.04 ، 2.20 ، 2.15 . فإذا كانت القراءات الثالثه و السابعه مؤخرات و القراءه العاشره مقدمه و نقل الميزان عند النقطة التاسعه و كانت النقطة العاشره نقطة دوران ، أوجد مناسيب النقط المختلفة إذا كانت النقطة الثالثه روبير منسوبه (50.00 م) فوق سطح البحر. ثم حقق النتائج حسابيا .

(10 Marks)

Question 3: Underline the error in each block of code below and correct it:

for $i = 1;100;2$ $x = x + i;$ end $x = x + i;$ $x = 0;$
x=x+i; end = f(x)
shaper = x + i; end output = 7; for j = 100; 2; 2 γ = Y + j; for j = 100; 2; 2 γ = Y + j; γ =
S
i+x=x send β δ δ δ δ δ δ δ δ δ
shend (x) = I(x) δ function [] = f(x) δ f
$\begin{array}{c c} \vdots + x = x \\ \text{bno} \\ \vdots \\ \exists \text{function } [\] = f(x) \\ \vdots \\ \exists \text{outbut} \\ \vdots \\$
$\begin{array}{c} x=x+i;\\ \text{end}\\ \vdots\\ \text{output}=7;\\ \text{end}\\ \text{ond}\\ \text{ond}\\ \text{ond}\\ \end{array}$
$ \begin{array}{c} \mathbf{x} = \mathbf{x} \\ \mathbf$
i = x = x + i; $cond$ $cond$ $f(x) = f(x)$
puə !i+x=x
;i+x=x
7600161 1 101
?0=x ⋅ 7
:[+X=X
$x + \ln tot = \ln tot$
$\text{while } (x \le 100)$
:0=x ·
No Correction

(5 Marks)

Question 4: $\frac{Question \ 4:}{Write \ an \ algorithm \ and \ draw \ a \ flowchart \ to} S = \frac{1}{1} \frac{1}{2} + \frac{1}{2^2} + \frac{1}{3^2} \cdots \cdots + \frac{1}{N^2}$

Question 5:

Read and Put (\forall) or (X) in the answer table:

1) It cannot be written to ROM memory chips

3) Abbreviation of RAM is Read Access Memory 2) A(:,2:3) Refers to the elements in all the rows between columns 2 and 3 of the matrix A.

A sum(A,[],2) returns the summation of each row of matrix A

((1,:)A) The value of c is 6, if $A = \begin{bmatrix} 1 & 2 & 3 \\ 5 & 3 & 0 \\ 1 & 9 & 1 \end{bmatrix}$ and c=sum(A(:,1))

6) 111011+11111 is equal to 1128

(5:1,8:2) x = d; $\begin{pmatrix} 1 & 3 & 4 \\ 2 & 2 & 7 \\ 0 & 2 & 1 \end{pmatrix}$; where $x = \begin{pmatrix} 1 & 3 & 4 \\ 2 & 3 & 7 \\ 1 & 3 & 6 \end{pmatrix}$; b = x(2:3,1:2)

8) Translator translates high-level language into machine-language all at a time

10) RAM and ROM are volatile memory 9) The summation of 253 $_8+614_8=567_{10}$

										Answer
01	6	8	L	9	S	t	ε	7	I	Question
	_		L.,		pje	TI	MSU	V		

Dr. Mohamed Mustafa Darmesk



جامعة أسيوط كلية العلوم متطلب جامعة الفصل الدراسي الثاني 2018-2017

المستوي: الأول المادة: التفكير العلمي كود المادة: 14 م ج الدرجة الكلية: 50 درجة زمن الامتحان: ساعتان



اجب عن السوال الاجباري التالى:
السؤال الأول: اكتب ما تعرفه عن كل مما يأتى:
1- العناصر الأخلاقية التي يُفضل ان تتواجد في شخصية العالِم.
2- التراكمية واتجاهاتها كصفة من صفات التفكير العلمي. دعم اجابتك بذكر امثلة.
 3- "القِدم والشهرة" كإحدى الدعامات التي ترتكز عليها السلطة الفكرية.
 4- الأراء المختلفة التي توضح حقيقة العلاقة بين التكنولوجيا والعلم.
و اجب عن سؤال واحد فقط مما يلى:
السؤال الثاني: قارن بين كل مما يأتي:
1- التفكير الاسطوري والتفكير الخرافي مع ذكر امثلة.
2- الحضارة الشرقية والحضارة اليونانية كحضارات قديمة اثرت بصفة أساسية في
تاريخ التفكير العلمي.
السؤال الثالث: ناقش العبارات التالية:
1- انكار قدرة العقل تمثل عقبة من عقبات التفكير العلمي.
2- يعتبر التنظيم من أهم سمات التفكير العلمي. دعم اجابتك بذكر امثلة.
مع خالص تمنياتي بالنجاح والتوفيق

X = X + 2;

NUM=NUM+1; end	UM+1: end	JM=NU	NI
----------------	-----------	-------	----

		IA	OIV	T	AC	IAT	1,	CII	
							1	• \	١
1	~	+	~~				- 1	h 1	

b) 4 times a) 3 times

c) 5 times

d) 6 times

13. Convert electronic data produced by the computer system and display them in a form that people can understand.

a) Input devices

b) Output devices

c) Monitor

d) Printer

14.is used for short-term storage of data or program instructions

a) Hard disk

b) ROM

c) RAM

d) CPU

15.is used as Programs, Commands and user responses

a) Data

b) Commands

c) Software

d) Instructions

Answer Table

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer															

Question 2:

Write the output of the following blocks of code:

(10 Marks)

No	Code	Output ·
1.	n = 3;	
	while $(n \ge 0)$	
	disp (n * n)	
	n=n-1;	
-	end	
	x = 2; y = 3;	and the state of t
	% disp $(x + y)$	
	i = 1; j = 2; k = 3; m = 2;	a i yarbaniga ke. Mesabak
	disp (k + m < j 3 - j >= k)	
	disp (~m)	
	disp (m <= 99 && k < m)	
11 -0-12	disp (~ (j - m))	
4,	i=1;	
	while (i < 10)	
	i=i+1;	
	if (mod (i, 3) == 0)	
	disp (i)	
	end	
	end	



Assiut University Faculty of Science Mathematics Dept.

Final Exam Introduction to computer Code: (100MC)

Date :20/5/2018 Level: first Time: 2 Hour



	Answer	the	following	questions:
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(50 Marks)

Let $x = [2 \ 5 \ 1 \ 6]$. How	ver and write it in the can we compute the	$[2^2 \ 5^2 \ 1^2 \ 6^2]$?	`
a) x*x	b) x.^2	c) x^2	d) x**x
Given the matrix A =	[1 5 7; 2 6 4; 3 8 2], w	hich value is reference	ed by A(2,1)?
a) 8	b) 2	c) 6	d) 5
Which Matlab comma	and is used to execute	a set of commands und	ler condition.
a) while	b) for	c)if	d) disp
What is the correct wa	ay to write the condition	on $y \le x \le z$?	
a) $(y < x) (x < z) $	b) (y < x) && (x < z)	c) $(y < x)$ or $(x < z)$	d) $(y < x)$ and $(x < z)$
When we use the rep	etition, the algorithm i	s considered as	
a) sequence	b) loop	c)branching	d)other
	gorithm in three differ	rent type	
a) sequence,	b) branching,	c) sequence,	d) selection,
selection, branching	calculation and loop	branching and loop	calculation and loop
Transmits signal spec address, input device	ifying whether to read	or write data to or from	m primary storage
	b) Data bus	c) Control bus	d) cards
	es operations in comp	uter	
a) Control unit	b) CPU	c) RAM	d) ROM
The devices provide	connections between t	he computer and com	nunications networks
a) CPU	b) Internet	c) Communication devices	d) control unit
What is the value of	x after the following c	ode? $x = 10$; $%x = 2$	*x+1;
a) 21	b) 10	c) No value	d) Error formula
	on with size 32 bits, wh	nat is equivalent size in	n nibble?
a) 4	b) 32	c) 8	d) No relation
	ne while loop executed	19	
X = 0; NUM = 2		T .	
1 U. I.I.U.I.I. 4	, ~ ~ · · · · · · ·		
while $(X \le 5)$			

Department of Mathematics	(Soc)		قسم الرياضيات						
Faculty of Science	HACK!		كلية العلوم						
امتحان نهائي الفصل الدراسي الثابي ٢٠١٨/٢٠١٧									
التاريخ: ٢٠١٨/٥/١٤م		علوم		للفرقة: الأولى					
الزمن: ساعتان		ة الامتحان: ٥٠ درجة	<u> درج</u>	اسم المقرر: ٥٠٠ر					

أولاً: التكامل أجب عن خمسة اسنلة فقط (كل سؤال ٥ درجات)

$$(i)$$
 $\int x^3 \ln x dx$ (ii) $\int \frac{1}{x^2 - 2x + 2} dx$ (۱)

. والمحور السيني
$$x=0$$
 والمستقيمين $x=0$ والمستقيمين $x=0$ والمحور السيني (٢)

. وجد حجم المجسم الدوراني الناشئ عن دوران القطع الناقص
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
 حول المحور السيني (٣)

$$I_n = \int \cos^n x dx$$
 وجد قانون اختزال للتكامل الاتي (٤)

$$x^2 + y^2 = 16$$
 المحدود أوجد مساحة الدائرة (٥) باستخدام التكامل المحدود أوجد مساحة الدائرة

(٦) احسب قيم التكاملات الاتية:

$$(i)\int x^2 \sec^2(x^3) dx$$
 $(ii)\int \frac{1}{1-\sin x} dx$

ثانيا: الهندسة أجب عن خمسة اسئلة فقط (كل سؤال ٥ درجات)

$$(i)r = 4\cos\theta$$
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اثبت مع الرسم أن مجموعة النقط
$$C = \{(x,y) \in R^2 : x^2 - 8y = 6x - 25\}$$
 تمثل قطع مكافئ واكتب معادلته وعين الدائيات كلا من الرأس والبؤرة ومعادلة الدليل .

- (1,4) أوجد معادلة المماس والعمودي للقطع $y^2 = 16 x$ عند النقطه (1,4).
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انتهت الأسئلة مع أطيب التمنيات منسق المادة: د. عبد الله الصفتي د . سعاد على حسن

Section	3:	(10)	marks
Dection	J.	110	mans

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The algorithm	
The flowchart	

Best Wishes

Dr. Alaa Fahim

6. Fin	id the outpu	ıt												
For i =1:4	.) -:^2										,			
,	$i) = i^2$ k+1;													
end														
a)16	p(a)	b)[1	491	16]		(c)	[12	3 5]		········	d)[1 16]		
7. exp	o(x) that m	lean .									1			
a)e	xcept x		b	e^x				c)ey	e x		T	C	l)others	
8. Convert the following to their binary equivalents: 154.057 ₈														
a) 1101100	0.0101111	b)	1010	11.10	1011	c)	1010	01.10	01111	l d	1)100	01101	100.111	11
9. The	e product of	f 1010	01*10	1 equ	ials	L		-						
a) 110100	1		b) 101	1111			c) 11	0111	l d	1) 111	1111		
10. Wł	nat the valu	ue of	b, if	A =	$\begin{bmatrix} 1 \\ 5 \\ -1 \end{bmatrix}$	2 3 9	$\begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix}$	and b	=min	n(A,	[],2)			
a)[1 2 0]		b) [1 0 -	1]		(c)	[-1 2	0]			d) (others	5	
11. The	e number 7	573 ₈	equ	ivale	nts to	hexa	a-dec	imal	numb	er	1			
a) F7B		b)	E7B			c)	FF7			d) B	5F		
				T	er T	able						,	7	
	Question	1	1	2	3	4	5	6	7	8	9	10		
	Answer	***************************************												
,			L		II		1			l	l			
	***************************************											****		

a)10*rand+2	b)8*rand+2 c) rand(2,10) d)24rand(2,10)											
		An	swer '	Γabl	e Se	ction	ı 1					
	Question 1 2 3 4 5 6 7 8 9 10											
	Answer											
	Question	11	12 13	14	15	16	17	18	19	20		
	Answer											
1. What i $k=1;$ for $i=1$	s the value of k	c after	the Ma	tlab c	code	belov	v exe	ecute	es?			
k=k+ end $disp(k)$	<i>i;</i>									8.93		
k=k+ end disp(k)	i;			c)2	2				d) :	5		
k=k+ end $disp(k)$ a) 26	i; b)10 atput of the foll $y+5;$	owing	code is	1	2				d) .	5		
k=k+ end $disp(k)$ 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$	i; b)10 atput of the foll $y+5$; $y+5$;			s:	5	h—f	in do	v~?)	(d)	10		
k=k+ end $disp(k)$ a) 26 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ a) 0	i; b)10 Intput of the foll $y+5$;			s:	5	, b=f	ind(:	x>2)	(d)	10		
k=k+ end $disp(k)$ a) 26 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ a) 0 3. What 4.	i; b)10 atput of the foll $y+5$; $y+5$;	f b wh		c) [1 2	5		ind(:	x>2)	d)) b=	10	1]	
k=k+ end $disp(k)$ 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ 3. What $y = 10$ 4.	b)10 atput of the foll b)+5; b) 6 is the value of	f b wh	ere x=	c) [1 2 c)	5 5 4];	4]			d) b=	10		

Department of Mathematics	(Soc)		قسم الرياضيات						
Faculty of Science	HACK!		كلية العلوم						
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Assiut University Faculty of Science Mathematics Dept.

Final Exam Introduction to computer Code: (100MC)

Date :20/5/2018 Level: first Time: 2 Hour



	Answer	the	following	questions:
--	--------	-----	-----------	------------

(50 Marks)

v can we compute the [$[2^2 \ 5^2 \ 1^2 \ 6^2]$?	
b) x.^2	c) x^2	d) x**x
[1 5 7; 2 6 4; 3 8 2], w	hich value is reference	ed by A(2,1)?
b) 2	c) 6	d) 5
and is used to execute	a set of commands und	ler condition.
b) for	c)if	d) disp
ay to write the condition	on $y \le x \le z$?	
b) $(y < x) & (x < z)$	c) $(y < x)$ or $(x < z)$	d) $(y < x)$ and $(x < z)$
etition, the algorithm i	s considered as	
b) loop	c)branching	d)other
/ 4	rent type	
b) branching,	c) sequence,	d) selection,
calculation and loop	branching and loop	calculation and loop
or output device	or write data to or from	m primary storage
	c) Control bus	d) cards
	uter	
	c) RAM	d) ROM
connections between t	he computer and comr	nunications networks
b) Internet	c) Communication	d) control unit
x after the following c		*x+1;
b) 10	c) No value	d) Error formula
1	hat is equivalent size in	n nibble?
7	c) 8	d) No relation
	17	
	8 è	
, DUIVI J,		
	b) x.^2 [1 5 7; 2 6 4; 3 8 2], w b) 2 and is used to execute a b) for ay to write the condition b) (y < x) & (x < z) betition, the algorithm in b) loop lgorithm in three differ b) branching, calculation and loop cifying whether to read or output device. b) Data bus tes operations in composite of the connections between the connections between the connections between the connections of the connections of the connections between the connections are connected to the connections between the connections are connected to the connections and connected the conn	b) x.^2 c) x^2 [1 5 7; 2 6 4; 3 8 2], which value is referenced b) 2 c) 6 and is used to execute a set of commands undoted b) for c) if ay to write the condition y < x < z? b) (y < x) && (x < z) c) (y < x) or (x < z) b) (y < x) & (x < z) c) (y < x) or (x < z) c) (y < x) or (x < z) c) c) branching c) branching dispersion of the condition and loop dispersion or output device. b) Data bus c) Control bus dispersion of the computer b) CPU c) RAM connections between the computer and commodition devices c) Communication devices c) Communication devices c) No value c) No value c) No value dispersion of the computer of the computer size in b) 32 c) 8 dispersion of the computer of the computer size in dispersion of the computer

Department of Mathematics		(Soc)	قسم الرياضيات		
Faculty of Science		HACK!		كلية العلوم	
7.17	الفصل الدراسي الثابي	امتحان نهائي			
التاريخ: ٢٠١٨/٥/١٤م		علوم		للفرقة: الأولى	
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a)e	xcept x		b	e^x			c)eye x d)others							
8. Co	nvert the fo	ollow	ring t	o the	ir bin	ary e	quiva	alents	s: 154	1.05	7_8			
a) 1101100	a) 1101100.0101111 b) 101011.101011			c)	1010	01.10	01111	l d	1)100	01101	100.111	11		
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a)[1 2 0]		b) [1 0 -	1]		(c)	[-1 2	0]			d) (others	5	
11. The	11. The number 7573 ₈ equivalents to hexa-decimal number													
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				T	er T	able						,	7	
	Question	1	1	2	3	4	5	6	7	8	9	10		
	Answer	***************************************												
,			L		II		1		1	l	l			
	***************************************											****		

a)	10*rand+2	b)8	b)8*rand+2				c) rand(2,10)				d)2 [‡] rand(2,10)		
			À	Answ	ver T	abl	e Se	ction	ı 1				
		Question	1	2	3	4	5	6	7	8	9	10	
		Answe	r										_
		Question	1 11	12	13	14	15	16	17	18	19	20	
		Answe											
	k=1;												
a)	for $i = k$ $k = k + $ end $disp(k)$ 26)			c)2	2	D S No Association			(d):	5	• = -
a)	k=k+ end disp(k)	b) 10 atput of the for $y + 5$;	**************************************	ng co	de is	<u></u>	2				(d):	5	
	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$	b)10 atput of the for the for the formula (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	illowin			: c)	5	L. C	1/		(d)	10	
	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$	b)10 atput of the for the for the formula is the f	illowin			: c)	5	, b=f	īnd(:	x>2)	(d)	10	
a) a)	k=k+ end disp(k) 26 2. The or x = 10; y = 5 if x > 10 y = y end disp(t) 0 3. What	b)10 atput of the for y+5; b) is the value	illowin			c) 1 2	5		ind(:	x>2)	d)) b=	10	
a)	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ 0 3. What 4.	b)10 atput of the for y+5; b) is the value	6 of b v	where	e x=	c) c) c)	5 5 4];	4]			d) b=	[0 0	1 1]

X = X + 2;

NUM=NUM+1; end	UM+1: end	JM=NU	NI
----------------	-----------	-------	----

		IA	OIV	T	AC	IAT	1,	CII	
							1	• \	١
1	~	+	~~				- 1	h 1	

b) 4 times a) 3 times

c) 5 times

d) 6 times

13. Convert electronic data produced by the computer system and display them in a form that people can understand.

a) Input devices

b) Output devices

c) Monitor

d) Printer

14.is used for short-term storage of data or program instructions

a) Hard disk

b) ROM

c) RAM

d) CPU

15.is used as Programs, Commands and user responses

a) Data

b) Commands

c) Software

d) Instructions

Answer Table

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer															

Question 2:

Write the output of the following blocks of code:

(10 Marks)

No	Code	Output ·
1.	n = 3;	
	while $(n \ge 0)$	
	disp (n * n)	
	n=n-1;	
-	end	
	x = 2; y = 3;	and the state of t
	% disp $(x + y)$	
	i = 1; j = 2; k = 3; m = 2;	a i yarbaniga ke. Mesabak
	disp (k + m < j 3 - j >= k)	
	disp (~m)	
	disp (m <= 99 && k < m)	
11 -0-12	disp (~ (j - m))	
4,	i=1;	
	while (i < 10)	
	i=i+1;	
	if (mod (i, 3) == 0)	
	disp (i)	
	end	
	end	



Assiut University Faculty of Science Mathematics Dept.

Final Exam Introduction to computer Code: (100MC)

Date :20/5/2018 Level: first Time: 2 Hour



	Answer	the	following	questions:
--	--------	-----	-----------	------------

(50 Marks)

Let $x = [2 \ 5 \ 1 \ 6]$. How	ver and write it in the can we compute the	$[2^2 \ 5^2 \ 1^2 \ 6^2]$?	`
a) x*x	b) x.^2	c) x^2	d) x**x
Given the matrix A =	[1 5 7; 2 6 4; 3 8 2], w	hich value is reference	ed by A(2,1)?
a) 8	b) 2	c) 6	d) 5
Which Matlab comma	and is used to execute	a set of commands und	ler condition.
a) while	b) for	c)if	d) disp
What is the correct wa	ay to write the condition	on $y \le x \le z$?	
a) $(y < x) (x < z) $	b) (y < x) && (x < z)	c) $(y < x)$ or $(x < z)$	d) $(y < x)$ and $(x < z)$
When we use the rep	etition, the algorithm i	s considered as	
a) sequence	b) loop	c)branching	d)other
	gorithm in three differ	rent type	
a) sequence,	b) branching,	c) sequence,	d) selection,
selection, branching	calculation and loop	branching and loop	calculation and loop
Transmits signal spec address, input device	ifying whether to read	or write data to or from	m primary storage
	b) Data bus	c) Control bus	d) cards
	es operations in comp	uter	
a) Control unit	b) CPU	c) RAM	d) ROM
The devices provide	connections between t	he computer and com	nunications networks
a) CPU	b) Internet	c) Communication devices	d) control unit
What is the value of	x after the following c	ode? $x = 10$; $%x = 2$	*x+1;
a) 21	b) 10	c) No value	d) Error formula
	on with size 32 bits, wh	nat is equivalent size in	n nibble?
a) 4	b) 32	c) 8	d) No relation
	ne while loop executed	19	
X = 0; NUM = 2		T .	
1 U. I.I.U.I.I. 4	, ~ ~ · · · · · · ·		
while $(X \le 5)$			

Department of Mathematics	(Soc)	قسم الرياضيات		
Faculty of Science	HACK!		كلية العلوم	
7.17	14.14	القصل الدراسي الثابي	امتحان نهائي	
التاريخ: ٢٠١٨/٥/١٤م		علوم		للفرقة: الأولى
الزمن: ساعتان		ة الامتحان: ٥٠ درجة	<u> درج</u>	اسم المقرر: ٥٠٠ر

أولاً: التكامل أجب عن خمسة اسنلة فقط (كل سؤال ٥ درجات)

$$(i)$$
 $\int x^3 \ln x dx$ (ii) $\int \frac{1}{x^2 - 2x + 2} dx$ (۱)

. والمحور السيني
$$x=0$$
 والمستقيمين $x=0$ والمستقيمين $x=0$ والمحور السيني (٢)

. وجد حجم المجسم الدوراني الناشئ عن دوران القطع الناقص
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
 حول المحور السيني (٣)

$$I_n = \int \cos^n x dx$$
 وجد قانون اختزال للتكامل الاتي (٤)

$$x^2 + y^2 = 16$$
 المحدود أوجد مساحة الدائرة (٥) باستخدام التكامل المحدود أوجد مساحة الدائرة

(٦) احسب قيم التكاملات الاتية:

$$(i)\int x^2 \sec^2(x^3) dx$$
 $(ii)\int \frac{1}{1-\sin x} dx$

ثانيا: الهندسة أجب عن خمسة اسئلة فقط (كل سؤال ٥ درجات)

$$(i)r = 4\cos\theta$$
 $(ii)r\sin\theta = 5$: أذكر مع التوضيح بالرسم انواع المنحنيات الممثلة بالمعادلات :

$$r^2 - 4r\cos\left(\theta - \frac{\pi}{4}\right) = 12$$
 أوجد مركز ونصف قطر الدائرة (٢)

اثبت مع الرسم أن مجموعة النقط
$$C = \{(x,y) \in R^2 : x^2 - 8y = 6x - 25\}$$
 تمثل قطع مكافئ واكتب معادلته وعين الدائيات كلا من الرأس والبؤرة ومعادلة الدليل .

- (1,4) أوجد معادلة المماس والعمودي للقطع $y^2 = 16 x$ عند النقطه (1,4).
- (٥) للقطع الناقص $44 = 9x^2 + 16y^2 = 9x^2$ أوجد احداثيات المركز والبؤرتين ومعادلة الدليلين وطول وتره البؤري العمودي .
 - (٦) أوجد معادلة القطع الزائد الذي مركزه نقطة الاصل وينطبق محوراه على محوري الاحداثيات واختلافه المركزي يساوي $\frac{\sqrt{7}}{2}$ وطول وتره البؤري العمودي يساوي $\frac{\sqrt{7}}{2}$

انتهت الأسئلة مع أطيب التمنيات منسق المادة: د. عبد الله الصفتي د . سعاد على حسن

Section	3:	(10)	marks
Dection	J.	110	mans

1. Find the error in the following codes

a)	Function $(a,b)=res(x,$
	for k=100:2:10
	a=x(i)+y(i);
	b = x(i) * y(i);

2. Write an algorithm and draw the flowchart that reads two values, determines the smallest value and prints the smallest value with an identifying message.

The algorithm	
The flowchart	

Best Wishes

Dr. Alaa Fahim

6. Fin	id the outpu	ıt												
For i =1:4	.) -:^2										,			
,	$i) = i^2$ k+1;													
end														
a)16	p(a)	b)[1	491	16]		(c)	[12	3 5]		········	d)[1 16]		
7. exp	o(x) that m	lean .									1			
a)e	xcept x		b	e^x				c)ey	e x		T	C	l)others	
8. Co	nvert the fo	ollow	ring t	o the	ir bin	ary e	quiva	alents	s: 154	1.05	7_8			
a) 1101100	a) 1101100.0101111 b) 101011.101011			c) 101001.101111 d					1)100	01101	100.111	11		
9. The	e product of	f 1010	01*10	1 equ	ials	L		-						
a) 110100	1		b) 101	1111			c) 11	0111	l d	1) 111	1111		
10. Wł	nat the valu	ue of	b, if	A =	$\begin{bmatrix} 1 \\ 5 \\ -1 \end{bmatrix}$	2 3 9	$\begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix}$	and b	=min	n(A,	[],2)			
a)[1 2 0]		b) [1 0 -	1]		(c)	[-1 2	0]			d) (others	5	
11. The	e number 7	573 ₈	equ	ivale	nts to	hexa	a-dec	imal	numb	er	1			
a) F7B		b)	E7B			c)	FF7			d) B	5F		
				T	er T	able						,	7	
	Question	1	1	2	3	4	5	6	7	8	9	10		
	Answer	***************************************												
,			L		II		1		1	l	l			
	***************************************											****		

a)	10*rand+2	b)8	b)8*rand+2				c) rand(2,10)				d)2 [‡] rand(2,10)		
			À	Answ	ver T	abl	e Se	ction	ı 1				
		Question	1	2	3	4	5	6	7	8	9	10	
		Answe	r										_
		Question	1 11	12	13	14	15	16	17	18	19	20	
		Answe											
	k=1;												
a)	for $i = k$ $k = k + $ end $disp(k)$ 26)			c)2	2	D S No Association			(d):	5	• = -
a)	k=k+ end disp(k)	b) 10 atput of the for $y + 5$;	**************************************	ng co	de is	<u></u>	2				(d):	5	
	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$	b)10 atput of the for the for the formula (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	illowin			: c)	5	L. C	1/		(d)	10	
	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$	b)10 atput of the for the for the formula is the f	illowin			: c)	5	, b=f	īnd(:	x>2)	(d)	10	
a) a)	k=k+ end disp(k) 26 2. The or x = 10; y = 5 if x > 10 y = y end disp(t) 0 3. What	b)10 atput of the for y+5; b) is the value	illowin			c) 1 2	5		ind(:	x>2)	d)) b=	10	
a)	k=k+ end $disp(k)$ 26 2. The or $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ 0 3. What 4.	b)10 atput of the for y+5; b) is the value	6 of b v	where	e x=	c) c) c)	5 5 4];	4]			d) b=	[0 0	1 1]



جامعة أسيوط كلية العلوم متطلب جامعة الفصل الدراسي الثاني 2018-2017

المستوي: الأول المادة: التفكير العلمي كود المادة: 14 م ج الدرجة الكلية: 50 درجة زمن الامتحان: ساعتان



اجب عن السوال الاجباري التالى:
السؤال الأول: اكتب ما تعرفه عن كل مما يأتى:
1- العناصر الأخلاقية التي يُفضل ان تتواجد في شخصية العالِم.
2- التراكمية واتجاهاتها كصفة من صفات التفكير العلمي. دعم اجابتك بذكر امثلة.
 3- "القِدم والشهرة" كإحدى الدعامات التي ترتكز عليها السلطة الفكرية.
 4- الأراء المختلفة التي توضح حقيقة العلاقة بين التكنولوجيا والعلم.
و اجب عن سؤال واحد فقط مما يلى:
السؤال الثاني: قارن بين كل مما يأتي:
1- التفكير الاسطوري والتفكير الخرافي مع ذكر امثلة.
2- الحضارة الشرقية والحضارة اليونانية كحضارات قديمة اثرت بصفة أساسية في
تاريخ التفكير العلمي.
السؤال الثالث: ناقش العبارات التالية:
1- انكار قدرة العقل تمثل عقبة من عقبات التفكير العلمي.
2- يعتبر التنظيم من أهم سمات التفكير العلمي. دعم اجابتك بذكر امثلة.
مع خالص تمنياتي بالنجاح والتوفيق

X = X + 2;

NUM=NUM+1; end	UM+1: end	JM=NU	NI
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		IA	OIV	T	AC	IAT	1,	CII	
							1	• \	١
1	~	+	~~				- 1	h 1	

b) 4 times a) 3 times

c) 5 times

d) 6 times

13. Convert electronic data produced by the computer system and display them in a form that people can understand.

a) Input devices

b) Output devices

c) Monitor

d) Printer

14.is used for short-term storage of data or program instructions

a) Hard disk

b) ROM

c) RAM

d) CPU

15.is used as Programs, Commands and user responses

a) Data

b) Commands

c) Software

d) Instructions

Answer Table

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer															

Question 2:

Write the output of the following blocks of code:

(10 Marks)

No	Code	Output ·
1.	n = 3;	
	while $(n \ge 0)$	
	disp (n * n)	
	n=n-1;	
-	end	
	x = 2; y = 3;	and the state of t
	% disp $(x + y)$	
	i = 1; j = 2; k = 3; m = 2;	a i yarbaniga ke. Mesabak
	disp (k + m < j 3 - j >= k)	
	disp (~m)	
	disp (m <= 99 && k < m)	
11 -0-12	disp (~ (j - m))	
4,	i=1;	
	while (i < 10)	
	i=i+1;	
	if (mod (i, 3) == 0)	
	disp (i)	
	end	
	end	



Assiut University Faculty of Science Mathematics Dept.

Final Exam Introduction to computer Code: (100MC)

Date :20/5/2018 Level: first Time: 2 Hour



	Answer	the	following	questions:
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(50 Marks)

Let $x = [2 \ 5 \ 1 \ 6]$. How	ver and write it in the can we compute the	$[2^2 \ 5^2 \ 1^2 \ 6^2]$?	`
a) x*x	b) x.^2	c) x^2	d) x**x
Given the matrix A =	[1 5 7; 2 6 4; 3 8 2], w	hich value is reference	ed by A(2,1)?
a) 8	b) 2	c) 6	d) 5
Which Matlab comma	and is used to execute	a set of commands und	ler condition.
a) while	b) for	c)if	d) disp
What is the correct wa	ay to write the condition	on $y \le x \le z$?	
a) $(y < x) (x < z) $	b) (y < x) && (x < z)	c) $(y < x)$ or $(x < z)$	d) $(y < x)$ and $(x < z)$
When we use the rep	etition, the algorithm i	s considered as	
a) sequence	b) loop	c)branching	d)other
	gorithm in three differ	rent type	
a) sequence,	b) branching,	c) sequence,	d) selection,
selection, branching	calculation and loop	branching and loop	calculation and loop
Transmits signal spec address, input device	ifying whether to read	or write data to or from	m primary storage
	b) Data bus	c) Control bus	d) cards
	es operations in comp	uter	
a) Control unit	b) CPU	c) RAM	d) ROM
The devices provide	connections between t	he computer and com	nunications networks
a) CPU	b) Internet	c) Communication devices	d) control unit
What is the value of	x after the following c	ode? $x = 10$; $%x = 2$	*x+1;
a) 21	b) 10	c) No value	d) Error formula
	on with size 32 bits, wh	nat is equivalent size in	n nibble?
a) 4	b) 32	c) 8	d) No relation
	ne while loop executed	19	
X = 0; NUM = 2		T .	
1 U. I.I.U.I.I. 4	, ~ ~ · · · · · · ·		
while $(X \le 5)$			

Department of Mathematics		(Soc)		قسم الرياضيات
Faculty of Science	HACK!		كلية العلوم	
7.17	14.14	القصل الدراسي الثابي	امتحان نهائي	
التاريخ: ٢٠١٨/٥/١٤م		علوم		للفرقة: الأولى
الزمن: ساعتان		ة الامتحان: ٥٠ درجة	<u> درج</u>	اسم المقرر: ٥٠٠ر

أولاً: التكامل أجب عن خمسة اسنلة فقط (كل سؤال ٥ درجات)

$$(i)$$
 $\int x^3 \ln x dx$ (ii) $\int \frac{1}{x^2 - 2x + 2} dx$ (۱)

. والمحور السيني
$$x=0$$
 والمستقيمين $x=0$ والمستقيمين $x=0$ والمحور السيني (٢)

. وجد حجم المجسم الدوراني الناشئ عن دوران القطع الناقص
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
 حول المحور السيني (٣)

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 وجد قانون اختزال للتكامل الاتي (٤)

$$x^2 + y^2 = 16$$
 المحدود أوجد مساحة الدائرة (٥) باستخدام التكامل المحدود أوجد مساحة الدائرة

(٦) احسب قيم التكاملات الاتية:

$$(i)\int x^2 \sec^2(x^3) dx$$
 $(ii)\int \frac{1}{1-\sin x} dx$

ثانيا: الهندسة أجب عن خمسة اسئلة فقط (كل سؤال ٥ درجات)

$$(i)r = 4\cos\theta$$
 $(ii)r\sin\theta = 5$: أذكر مع التوضيح بالرسم انواع المنحنيات الممثلة بالمعادلات :

$$r^2 - 4r\cos\left(\theta - \frac{\pi}{4}\right) = 12$$
 أوجد مركز ونصف قطر الدائرة (٢)

اثبت مع الرسم أن مجموعة النقط
$$C = \{(x,y) \in R^2 : x^2 - 8y = 6x - 25\}$$
 تمثل قطع مكافئ واكتب معادلته وعين الدائيات كلا من الرأس والبؤرة ومعادلة الدليل .

- (1,4) أوجد معادلة المماس والعمودي للقطع $y^2 = 16 x$ عند النقطه (1,4).
- (٥) للقطع الناقص $44 = 9x^2 + 16y^2 = 9x^2$ أوجد احداثيات المركز والبؤرتين ومعادلة الدليلين وطول وتره البؤري العمودي .
 - (٦) أوجد معادلة القطع الزائد الذي مركزه نقطة الاصل وينطبق محوراه على محوري الاحداثيات واختلافه المركزي يساوي $\frac{\sqrt{7}}{2}$ وطول وتره البؤري العمودي يساوي $\frac{\sqrt{7}}{2}$

انتهت الأسئلة مع أطيب التمنيات منسق المادة: د. عبد الله الصفتي د . سعاد على حسن

Section	3:	(10)	marks
Dection	J.	110	mans

1. Find the error in the following codes

a)	Function $(a,b)=res(x,$
	for k=100:2:10
	a=x(i)+y(i);
	b = x(i) * y(i);

2. Write an algorithm and draw the flowchart that reads two values, determines the smallest value and prints the smallest value with an identifying message.

The algorithm	
The flowchart	

Best Wishes

Dr. Alaa Fahim

6. Fin	id the outpu	ıt												
For i =1:4	.) -:^2										,			
,	$i) = i^2$ k+1;													
end														
a)16	p(a)	b)[1	491	16]		(c)	[12	3 5]		········	d)[1 16]		
7. exp	o(x) that m	lean .									1			
a)e	xcept x		b	e^x				c)ey	e x		T	C	l)others	
8. Co	nvert the fo	ollow	ring t	o the	ir bin	ary e	quiva	alents	s: 154	1.05	7_8			
a) 1101100						1010	01.10	01111	l d	1)100	01101	100.111	11	
9. The	e product of	f 1010	01*10	1 equ	ials	L		-						
a) 110100	1		b) 101	1111			c) 11	0111	l d	1) 111	1111		
10. Wł	nat the valu	ue of	b, if	A =	$\begin{bmatrix} 1 \\ 5 \\ -1 \end{bmatrix}$	2 3 9	$\begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix}$	and b	=min	n(A,	[],2)			
a)[1 2 0]		b) [1 0 -	1]		(c)	[-1 2	0]			d) (others	5	
11. The	e number 7	573 ₈	equ	ivale	nts to	hexa	a-dec	imal	numb	er	1			
a) F7B		b)	E7B			c)	FF7			d) B	5F		
				T	er T	able					9	,	7	
	Question	1 2 3				4	4 5 6 7 8					10		
	Answer	***************************************												
,			L		II		1		1	l	l			
	***************************************											****		

a)10*rand+2	b)8*r	and+2		c)	rand	(2,10))		d)2	4rand	(2,10)
		An	swer '	Γabl	e Se	ction	ı 1				
	Question	1	2 3	4	5	6	7	8	9	10	
	Answer										
	Question	11	12 13	14	15	16	17	18	19	20	
	Answer										
1. What i $k=1;$ for $i=1$	s the value of k	c after	the Ma	tlab c	code	belov	v exe	ecute	es?		
k=k+ end $disp(k)$	<i>i;</i>									8.93	
k=k+ end disp(k)	i;			c)2	2				d) :	5	
k=k+ end $disp(k)$ a) 26	i; b)10 atput of the foll $y+5$;	owing	code is	1	2				d) .	5	
k=k+ end $disp(k)$ 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$	i; b)10 atput of the foll $y+5$; $y+5$;			s:	5	h—f	in do	v~?)	(d)	10	
k=k+ end $disp(k)$ a) 26 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ a) 0	i; b)10 Intput of the foll $y+5$;			s:	5	, b=f	ind(:	x>2)	(d)	10	
k=k+ end $disp(k)$ a) 26 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ a) 0 3. What 4.	i; b)10 atput of the foll $y+5$; $y+5$;	f b wh		c) [1 2	5		ind(:	x>2)	d)) b=	10	1]
k=k+ end $disp(k)$ 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ 3. What $y = 10$ 4.	b)10 atput of the foll b)+5; b) 6 is the value of	f b wh	ere x=	c) [1 2 c)	5 5 4];	4]			d) b=	10	

Question 5:

Read and Put (\forall) or (X) in the answer table:

1) It cannot be written to ROM memory chips

3) Abbreviation of RAM is Read Access Memory 2) A(:,2:3) Refers to the elements in all the rows between columns 2 and 3 of the matrix A.

A sum(A,[],2) returns the summation of each row of matrix A

((1,:)A) The value of c is 6, if $A = \begin{bmatrix} 1 & 2 & 3 \\ 5 & 3 & 0 \\ 1 & 9 & 1 \end{bmatrix}$ and c=sum(A(:,1))

6) 111011+11111 is equal to 1128

(5:1,8:2) x = d; $\begin{pmatrix} 1 & 3 & 4 \\ 2 & 2 & 7 \\ 0 & 2 & 1 \end{pmatrix}$; where $x = \begin{pmatrix} 1 & 3 & 4 \\ 2 & 3 & 7 \\ 1 & 3 & 6 \end{pmatrix}$; b = x(2:3,1:2)

8) Translator translates high-level language into machine-language all at a time

10) RAM and ROM are volatile memory 9) The summation of 253 $_8+614_8=567_{10}$

										Answer
01	6	8	L	9	S	t	ε	7	I	Question
	_		L.,		pje	TI	MSU	V		

Dr. Mohamed Mustafa Darmesk



جامعة أسيوط كلية العلوم متطلب جامعة الفصل الدراسي الثاني 2018-2017

المستوي: الأول المادة: التفكير العلمي كود المادة: 14 م ج الدرجة الكلية: 50 درجة زمن الامتحان: ساعتان



اجب عن السوال الاجباري التالى:
السؤال الأول: اكتب ما تعرفه عن كل مما يأتى:
1- العناصر الأخلاقية التي يُفضل ان تتواجد في شخصية العالِم.
2- التراكمية واتجاهاتها كصفة من صفات التفكير العلمي. دعم اجابتك بذكر امثلة.
 3- "القِدم والشهرة" كإحدى الدعامات التي ترتكز عليها السلطة الفكرية.
 4- الأراء المختلفة التي توضح حقيقة العلاقة بين التكنولوجيا والعلم.
و اجب عن سؤال واحد فقط مما يلى:
السؤال الثاني: قارن بين كل مما يأتي:
1- التفكير الاسطوري والتفكير الخرافي مع ذكر امثلة.
2- الحضارة الشرقية والحضارة اليونانية كحضارات قديمة اثرت بصفة أساسية في
تاريخ التفكير العلمي.
السؤال الثالث: ناقش العبارات التالية:
1- انكار قدرة العقل تمثل عقبة من عقبات التفكير العلمي.
2- يعتبر التنظيم من أهم سمات التفكير العلمي. دعم اجابتك بذكر امثلة.
مع خالص تمنياتي بالنجاح والتوفيق

X = X + 2;

NUM=NUM+1; end	UM+1: end	JM=NU	NI
----------------	-----------	-------	----

		IA	OIV	T	AC	IAT	1,	CII	
							1	• \	١
1	~	+	~~				- 1	h 1	

b) 4 times a) 3 times

c) 5 times

d) 6 times

13. Convert electronic data produced by the computer system and display them in a form that people can understand.

a) Input devices

b) Output devices

c) Monitor

d) Printer

14.is used for short-term storage of data or program instructions

a) Hard disk

b) ROM

c) RAM

d) CPU

15.is used as Programs, Commands and user responses

a) Data

b) Commands

c) Software

d) Instructions

Answer Table

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer															

Question 2:

Write the output of the following blocks of code:

(10 Marks)

No	Code	Output ·
1.	n = 3;	
	while $(n \ge 0)$	
	disp (n * n)	
	n=n-1;	
-	end	
	x = 2; y = 3;	and the state of t
	% disp $(x + y)$	
	i = 1; j = 2; k = 3; m = 2;	a i yarbaniga ke. Mesabak
	disp (k + m < j 3 - j >= k)	
	disp (~m)	
	disp (m <= 99 && k < m)	
11 -0-12	disp (~ (j - m))	
4,	i=1;	
	while (i < 10)	
	i=i+1;	
	if (mod (i, 3) == 0)	
	disp (i)	
	end	
	end	



Assiut University Faculty of Science Mathematics Dept.

Final Exam Introduction to computer Code: (100MC)

Date :20/5/2018 Level: first Time: 2 Hour



	Answer	the	following	questions:
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(50 Marks)

Let $x = [2 \ 5 \ 1 \ 6]$. How	ver and write it in the can we compute the	$[2^2 \ 5^2 \ 1^2 \ 6^2]$?	`
a) x*x	b) x.^2	c) x^2	d) x**x
Given the matrix A =	[1 5 7; 2 6 4; 3 8 2], w	hich value is reference	ed by A(2,1)?
a) 8	b) 2	c) 6	d) 5
Which Matlab comma	and is used to execute	a set of commands und	ler condition.
a) while	b) for	c)if	d) disp
What is the correct wa	ay to write the condition	on $y \le x \le z$?	
a) $(y < x) (x < z) $	b) (y < x) && (x < z)	c) $(y < x)$ or $(x < z)$	d) $(y < x)$ and $(x < z)$
When we use the rep	etition, the algorithm i	s considered as	
a) sequence	b) loop	c)branching	d)other
	gorithm in three differ	rent type	
a) sequence,	b) branching,	c) sequence,	d) selection,
selection, branching	calculation and loop	branching and loop	calculation and loop
Transmits signal spec address, input device	ifying whether to read	or write data to or from	m primary storage
	b) Data bus	c) Control bus	d) cards
	es operations in comp	uter	
a) Control unit	b) CPU	c) RAM	d) ROM
The devices provide	connections between t	he computer and com	nunications networks
a) CPU	b) Internet	c) Communication devices	d) control unit
What is the value of	x after the following c	ode? $x = 10$; $%x = 2$	*x+1;
a) 21	b) 10	c) No value	d) Error formula
	on with size 32 bits, wh	nat is equivalent size in	n nibble?
a) 4	b) 32	c) 8	d) No relation
	ne while loop executed	19	
X = 0; NUM = 2		T .	
1 U. I.I.U.I.I. 4	, ~ ~ · · · · · · ·		
while $(X \le 5)$			

Department of Mathematics		(Soc)		قسم الرياضيات			
Faculty of Science	HACK!	كلية العلوم					
امتحان نهائي القصل الدراسي الثابي ٢٠١٨/٢٠١٧							
التاريخ: ٢٠١٨/٥/١٤م		علوم		للفرقة: الأولى			
الزمن: ساعتان		ة الامتحان: ٥٠ درجة	<u> درج</u>	اسم المقرر: ٥٠٠ر			

أولاً: التكامل أجب عن خمسة اسنلة فقط (كل سؤال ٥ درجات)

$$(i)$$
 $\int x^3 \ln x dx$ (ii) $\int \frac{1}{x^2 - 2x + 2} dx$ (۱)

. والمحور السيني
$$x=0$$
 والمستقيمين $x=0$ والمستقيمين $x=0$ والمحور السيني (٢)

. وجد حجم المجسم الدوراني الناشئ عن دوران القطع الناقص
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
 حول المحور السيني (٣)

$$I_n = \int \cos^n x dx$$
 وجد قانون اختزال للتكامل الاتي (٤)

$$x^2 + y^2 = 16$$
 المحدود أوجد مساحة الدائرة (٥) باستخدام التكامل المحدود أوجد مساحة الدائرة

(٦) احسب قيم التكاملات الاتية:

$$(i)\int x^2 \sec^2(x^3) dx$$
 $(ii)\int \frac{1}{1-\sin x} dx$

ثانيا: الهندسة أجب عن خمسة اسئلة فقط (كل سؤال ٥ درجات)

$$(i)r = 4\cos\theta$$
 $(ii)r\sin\theta = 5$: أذكر مع التوضيح بالرسم انواع المنحنيات الممثلة بالمعادلات :

$$r^2 - 4r\cos\left(\theta - \frac{\pi}{4}\right) = 12$$
 أوجد مركز ونصف قطر الدائرة (٢)

اثبت مع الرسم أن مجموعة النقط
$$C = \{(x,y) \in R^2 : x^2 - 8y = 6x - 25\}$$
 تمثل قطع مكافئ واكتب معادلته وعين الدائيات كلا من الرأس والبؤرة ومعادلة الدليل .

- (1,4) أوجد معادلة المماس والعمودي للقطع $y^2 = 16 x$ عند النقطه (1,4).
- (٥) للقطع الناقص $44 = 9x^2 + 16y^2 = 9x^2$ أوجد احداثيات المركز والبؤرتين ومعادلة الدليلين وطول وتره البؤري العمودي .
 - (٦) أوجد معادلة القطع الزائد الذي مركزه نقطة الاصل وينطبق محوراه على محوري الاحداثيات واختلافه المركزي يساوي $\frac{\sqrt{7}}{2}$ وطول وتره البؤري العمودي يساوي $\frac{\sqrt{7}}{2}$

انتهت الأسئلة مع أطيب التمنيات منسق المادة: د. عبد الله الصفتي د . سعاد على حسن

Section	3:	(10)	marks
Section	J.	110	mains

1. Find the error in the following codes

a)	Function $(a,b)=res(x,$
	for k=100:2:10
	a=x(i)+y(i);
	b = x(i) * y(i);

2. Write an algorithm and draw the flowchart that reads two values, determines the smallest value and prints the smallest value with an identifying message.

The algorithm	
The flowchart	

Best Wishes

Dr. Alaa Fahim

6. Fin	id the outpu	ıt												
For i =1:4	.) -:^2										,			
,	$i) = i^2$ k+1;													
end														
a)16	p(a)	b)[1	491	16]		(c)	[12	3 5]		········	d)[1 16]		
7. exp	o(x) that m	lean .									1			
a)e	xcept x		b	e^x				c)ey	e x		T	C	d)others	
8. Co	nvert the fo	ollow	ring t	o the	ir bin	ary e	quiva	alents	s: 154	1.05	7_8			
a) 1101100	0.0101111	b)	1010	11.10	1011	c)	1010	01.10	0111	l d	1)100	01101	100.111	11
9. The	e product of	f 1010	01*10	1 equ	ials	L		-						
a) 110100	1		b) 101	1111			c) 11	0111	l d	1) 111	1111	CONTRACTOR OF THE PROPERTY AND	
10. Wł	nat the valu	ue of	b, if	A =	$\begin{bmatrix} 1 \\ 5 \\ -1 \end{bmatrix}$	2 3 9	$\begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix}$	and b	=min	n(A,	[],2)			
a)[1 2 0]		b) [1 0 -	1]		(c)	[-1 2	0]			d) (others	S	
11. The	e number 7	573 ₈	equ	ivale	nts to	hexa	a-dec	imal	numb	er	1			
a) F7B		b)	E7B			c)	FF7			d) B	5F		
				T	er T	able						,	7	
	Question	1	1	2	3	4	5	6	7	8	9	10		
	Answer	***************************************												
,			L		II		1			l	l			
														-

a)10*rand+2	b)8*r	and+2		c)	rand	(2,10))		d)2	4rand	(2,10)
		Ar	iswer	Tabl	e Se	ctior	ı 1				
	Question	1	2 3	4	5	6	7	8	9	10	
	Answer										
	Question	11	12 13	14	15	16	17	18	19	20	
	Answer										
1. What i $k=1;$ for $i=1$	s the value of k	c after	the M	atlab c	code	belov	w exe	ecute	s?		
k=k+ end disp(k)	<i>i;</i>								1	8.4	
k=k+ end disp(k)	i;			c)2	2				(d):	5	
k=k+ end $disp(k)$ a) 26	i; b)10 atput of the foll $y+5$;	owing	code		2				d) :	5	
k=k+ end $disp(k)$ 2. The out $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$	i; b)10 atput of the foll $y+5$; $y+5$;			c)	5	h—f	ind.	v~?)	(d)	10	
k=k+ end $disp(k)$ a) 26 2. The out $x = 10;$ $y = 5$ $if x > 10$ $y = y$ end $disp(t)$ a) 0	i; b)10 Intput of the foll $y+5$;			c)	5	, b=f	ind(x>2)	(d)	10	
k=k+ end $disp(k)$ a) 26 2. The ou $x = 10;$ $y = 5$ $if x>10$ $y = y$ end $disp(t)$ a) 0 3. What 4.	i; b)10 atput of the foll $y+5$; $y+5$;	f b wh		s: c) =[1 2	5		ind(x>2)	d) b=	10	1]
k=k+ end $disp(k)$ 2. The ou $x = 10;$ $y = 5$ $if x > 10;$ $y = y$ end $disp(t)$ 3. What 4.	b)10 atput of the foll b)+5; b) 6 is the value of	f b wh	nere x	s: c) =[1 2	5 5 4];	4]			d) b=	10	