

امتحان نهائي الفصل الدراسي الثاني 2023/2022 من الثاني 2023/2022 من الفصل الدراسي الثاني 2023/2022

المستوى:الرابع البرنامج:البيولوجيا الجزيئية المادة: تطبيقات في الحاسب الآلي كود المقرر:401س





التاريخ: 10 /6 /2023 الزمن: ساعتين الدرجة الكلية: 90 درجة

قسم الرياضيات

<u> </u>								- 1
Answer the fol								
								Marks)
1) Which cell refer	ence is o	correct	• • • • • • •					
a) \$A1\$	b)\$A1			c)	c) A\$1\$		d)1A	
2) The formula=SQ	RT(-4)	will be re	esult the e	error				
a) #NUM!	b)#REF! c) #VA					E!	d) ####	‡
3) Which symbol m	ust all fo	ormula b	egin with	?				
a) +		b)@		c)	=		d)\$	
4) What allow quicl	kly apply	y the con	tent for o	ne cell t	o another	cell?		
a) Active cell		b) Auto	sum	c)	Auto Fi	11	d) Auto	cell
5) Which of the foll	owing s	yntax is	correct re	garding	to AVEF	RAGE fu	inction in	Excel?
a) = AVERAGE(4,	5, 6, 7)				b) AVEI	RAGE(A	1:A9, B1	:B9)
c) =AVERAGE (A1, B1, C1) d) All the above								,
6) Which formula would you use to calculate how many sales are over \$20 from a series?								
a) Sum b) SumIF c) Count d) CountIF								
7) Formula		•		,			,	
A A	В	С	D	E	F	G	Н	
1 Star	Star	Stars	Star5	L	star12	8	moon	
		Julia	Stars					ታ ን ን \
a) = CountA (A1:H1) b) = CountIF (A1:H1, "*star*")								,
c) = CountIF (A1, H1, "*") d) = CountIF (A1, H1, "*")								
8) An Excel file is g					XX71 1		\ A1'	·
a) Spreadsheet b) Woorksheet c) Workbook d) Application								
9) To measure ranked variables the correlation coefficient is used.								
a) Spearman's b) Pearson's c) Fisher's d) None of these								
10) Cell D4 contains	the for	mula =C	1+C2. W	hat forn	nula will	see whe	en you pas	ste this
into cell E5?	b)	_D2+D	2	2)	_D1 + D2) A`	_\$C1+\$	CO
a) =C1+C2 b) =D2+D3					c) =D1+D2 d) =\$C1+\$C2	
Question2: Compl							(15 N	Iarks)
1) Function			_	•	_			
2) Formula is used to find the second smallest number.								
3) Function calculates the variance based on the entire population, while function estimates the variance based on a sample.								
					_		alla E2.E4	₹
4) Formula is used to find the 30 th percentile of the list in cells E2:E5.								

5) For the data below, the formulas that are used to compute the median, the upper quartile (Q_3) , and lower quartiles (Q_1) are(1)......(2)......, and(3)......, respectively.

A	Α	В	С	D	Е	F	G	Н	1
1	6	47	49	15	43	41	7	39	43

Question3: (i) Write the result of x in each code by using R-language: (15 Marks)

- a) >> x=1:5
- b) >>x=c(1,3,m,"b")
- c) >>a=2;b=3;c=5; x=sum(a,b,c)
- d) >> x = sort(5,0,8,2,4)
- e) >>x<-5;y<-(1,4,6,23);x=diff(y)
- f) >>x<-rep(c(1,3),c(2,4))
- $g) >> x = -2^2$
- h) >> x < -44%%5
- i) >>x<-sqrt(9)
- $j) >> x = \sin(45)^2 + \cos(45)^2$
- k) >> x = array(c(2,1,3,0,-31,1,1,0,2,0,-2,0),dim(3,4))
- (ii) How many number of ways to arrange the letters of a word Posibility?(by using **EXCEL**)

Question4:Write the uses of the following Functions:

(20 Marks)

getwd(),

rm(list-ls()),

listfiles().

options(width=30),

LETTERS.

month.name,

history,max()

ng: (25 Marks)

Question5:Write the codes or Functions of the following:

1- Solving System $3x_1+2x_2-x_3=1$,

 $2x_1-2x_2+4x_3=2$,

 $-x_1+0.5x_2-x_3=0$

2) 3!, ${}^{3}p_{2}$, ${}^{5}n_{3}$.

With my Best wishes Dr. Noha M. El-Badry

Head of Math. Department: Prof. Dr. Ahmed. M.K. Tarabia