, ,		o. Code: SMZO 63 ATION, APRIL 2022		(a)(b)(c)(d)	missing value extreme data values lower limit all the above	
			4.		correlation of zero means there is no	
Zoology — Core TATISTICS, COMPUTER APPLICATIONS AND BIOINFORMATICS				(a)	two variables (b) three valuable	
				(c)	four variable (d) all of the above	
For those who joined in July 2017 onwards) Three hours Maximum: 75 marks			5.	Wh	at is the CPU?	
				(a)	Central Producing Unit	
PART A — $(10 \times 1 = 10 \text{ marks})$				(b)	Central Processing Unit	
Answer ALL questions.				(c)	Center Processing Unit	
Shoose the correct answer:				(d)	All the above	
Vhat is primary data?			6.	MS	S-Word Window elements includes	
a) Facts or t	0			(a)	Title bar (b) Menu bar	
b) Information from journal				(c)	Toolbars (d) All the above	
c) First hand information			7	7. Bioinformatics is defined as the application		
d) All the above A variable may also be called as ————			/.	too	of computation and analysis to the capture dinterpretation of	
a) data iten	-	raw data		(a)	biological data (b) chemical data	
c) age	(d)	all the above		(c)	physical data (d) all the above	
					Page 2 Code No.: 10629 E	
Foday, ————————————————————————————————————			12.	(a)	How do you calculate the standard deviation? Or	
a) Bioinforn	matics (b)	Biotranformation				
c) Biostatis	stics (d)	All the above		(b)	Describe the various application of chi squared.	
name and orig	gin of the	information about the	13.	. (a)	Explain differences between primary memory and secondary memory.	
a) Protein	(b)	Protoplasam			Or	
c) Cytoplasm (d) Necleoplsam Swiss-PdbViewer is an application that provides a user friendly interface allowing to analyze several				(b)	Describe the various features of Microsoft Word.	
proteins at the			14	. (a)	Write a short note on the benefits to learning	
(a) different	hours (b)	same time			bioinformatics.	
(c) same pro	otein (d)	all the above			\mathbf{Or}	
PART B — $(5 \times 5 = 25 \text{ marks})$				(b)		
ıswer ALL qu	estions, choosi	ng either (a) or (b).			present biological research?	
Each answer should not exceed 250 words.			15	. (a)		
(a) Describe the classification of data.					$\overline{\mathrm{Or}}$	
(b) Explain	Or (b) Explains the main parts of a table.			(b)	Define the term ENTREZ database and their functions.	
. ,						

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The range is determined by only two —

3.

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PART C —
$$(5 \times 8 = 40 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Calculate the mean value of the following data.

X 6 7 8 9 10 11 f 15 17 20 16 19 13

Or

- (b) What are frequency polygon curve and a frequency curve?
- 17. (a) What are the three types of correlation? Write an example of a positive correlation.

Or

(b) Find Karl Pearson's correlation coefficient for the following data.

X 3 2 1 5 4 Y 8 4 10 2 6

18. (a) Explain the different functions in Excel.

Or

(b) What are the uses of email and internet?

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19. (a) Explain the different components and concept of bioinformatics.

Or

- (b) Write about biological sequence alignment? Which model is used for biological sequence analysis?
- 20. (a) Write an essay on SWISS-PORT protein sequence database.

Or

(b) Which is the protein structure visualization tool and software mention the used?

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