(6 pag	and the second of the second o	2.	A pic chart, sometimes called a ———, is a way of summarizing a set of nominal data.
Cod	e No.: 30256 E Sub. Code: SMZO 63		(a) histogram (b) circle chart
			(c) bar diagram (d) all the above
	B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2022.	3.	.,
	Sixth Semester	L T	The variance is a measure of ————. It is calculated by taking the average of squared deviations from the mean.
	Zoology		(a) variability (b) maximum limit
Blos	STATISTICS, COMPUTER APPLICATIONS AND		(c) lower limit (d) all the above
	BIOINFORMATICS	4,	ş
	(For those who joined in July 2017 onwards)	•	A ———— exists when two variables move in the same direction as one another.
Time: Three hours Maximum: 75 marks			(a) positive correlation
			(b) negative correlation
	PART A — $(10 \times 1 = 10 \text{ marks})$		(c) no correlation
	Answer ALL questions.		(d) all of the above
(Choose the correct answer:	5.	
1.	What is data?	.0.	What is the CPU?
((a) facts or figures		(a) Central Producing Unit
((b) information already available	76	(b) Central Processing Unit
((c) collection of information		(c) Center Processing Unit (d) All the above
((d) all the above		(u) All the above
			Page 2 Code No. : 30256 E
		-	
	* -		.=
6. 5	Simple formatting includes, ———— font		DIDEN AND AND AND AND AND AND AND AND AND AN
	color, and, font style.		PART B — $(5 \times 5 = 25 \text{ marks})$
	(a) fonts (b) font size		Answer ALL questions choosing either (a) or (b). Each answer should not exceed 250 words.
((c) text alignment (d) all the above	11.	A
	Bioinformatics tools aid in the comparison of genetic and	- ·	population.
	(a) genomic data (b) chemical data		Or
	(c) physical data (d) all the above		(b) Explain the main parts of a table.
1	A biological sequence is a single, continuous molecule of nucleic acid or	12.	(a) Calculate mode value for the following data: x: 10 11 12 13 14 15 16
	(a) carbohydrate (b) protein (c) glucose (d) all the above		f: 8 4 12 24 26 7 11
- v			Or
1	SWISS-MODEL is a structural bioinformatics web-server dedicated to homology modeling of		(b) Describe the various applications of chi squared.
	(a) 3D protein structures (b) 2D protein structures	13.	(a) Explain the primary and secondary memory
	(c) 1D protein structures	4	with examples
	(d) none of the above		Or
10.	FASTA is pronounced "fast A", and stands for		(b) Describe the various uses for Microsoft Word.
	(a) "FAST-All",	14.	(a) What is the important application of bioinformatics?
	(b) "FEST-All"		
(Or
	(c) "FIRST-All"		
((c) "FIRST-All" (d) All the above		(b) Explain the main goal of bioinformatics in the field of biology.

15. (a) Write about the main features of GenBank?

Or

(b) Define the term PDB viewer and their functions.

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 median value of the following data:

x: 10-20 20-30 30-40 40-50 50-60

f: 15 17 16 19 13

Or

- (b) What are frequency polygon curve and a frequency curve?
- 17. (a) Find out correlation coefficient for the following data:

Length in cm:

5 3 4 7 6 8 5 3 9 8

Weight in grams: 10 4 6 18 15 21 9 5 22 20

Or

(b) What is correlation, types and its application?

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18. (a) Explain the MS Office and its types.

Or

- (b) What are the uses of email and Internet?
- (a) Write about the biological sequence in bioinformatics.

Or

- (b) Give an account of scope and applications of bioinformatics.
- 20. (a) How do you find the protein sequence in BLAST?

Or

(b) What is Entrez database and its function?

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