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Reg. No. : .....

Code No. : 10364 E Sub. Code : EEZO 51

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2025.

Fifth Semester

Zoology

Major Elective — BIostatistics AND COMPUTER  
APPLICATION

(For those who joined in July 2023 onwards)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Identify the term for arranging values in columns

- (a) Interpretation      (b) Tabulation  
(c) Sampling            (d) Processing

2. Which defines mode?

- (a) Difference between highest and lowest value  
(b) Value of middle observation  
(c) Average of value  
(d) Most frequent value

3. Reliability of an average is determined by

- (a) Measures of Dispersion  
(b) Correlation  
(c) Regression  
(d) Skewness

4. Square of the standard deviation is

- (a) Variance  
(b) Mean deviation  
(c) Standard error  
(d) Range

5. Graphical method of studying correlation is by

- (a) Bar graph            (b) Scattergram  
(c) Pictogram            (d) Histogram

6. Coefficient of correlation \_\_\_\_\_.
- (a) Can take any value  
 (b) Is always more than 1  
 (c) Is always less than 1  
 (d) Can take any value between +1 and -1
7. Which storage device has the largest storage capacity among the following?
- (a) CD (b) DVD  
 (c) Blu-ray Disc (d) Hard Disk Drive
8. Which UNIX command is used to change the current working directory?
- (a) Cd (b) Pwd  
 (c) ls (d) Chdir
9. Which feature allows you to apply motion effects to text or objects in a slide?
- (a) Transition (b) Animation  
 (c) Design (d) Layout
10. The unique address of a website is called
- (a) URL (b) IP Address  
 (c) Domain (d) Link

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).  
 Each answer should not exceed 250 words.

11. (a) Describe the methods of classifying raw data.

Or

- (b) Compare the characteristics of the mean, median and mode.

12. (a) Which measure of dispersion is considered the most reliable and what is the reason for its preference?

Or

- (b) Find out the variance, standard deviation and standard error of mean from the following data on the height of students in cm.

159	165	169	163	161	171	173	167
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13. (a) What is correlation? Describe the types of correlation.

Or

- (b) Discuss the technique of testing statistical significance of using t-test.

14. (a) Demonstrate the characteristics and technological advancements of different generations of computers with suitable examples.

Or

- (b) Present the various components of multimedia and their applications in real life.
15. (a) Compile the different steps involved in entering and editing data in MS Excel with suitable examples.

Or

- (b) Explain the construction of bar chart using MS-Excel.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Outline the different types of frequency distribution. Illustrate with examples.

Or

- (b) Evaluate the diagrammatic presentation of data.

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17. (a) The following table shows the grouped data, in classes, for the heights of 50 people. Compute standard deviation and standard error of mean.

Height in cm	120-130	130-140	140-150	150-160	160-170
Number of People	2	5	25	10	8

Or

- (b) "Dispersion is the degree of scatter of the variable from a central value" — Justify.
18. (a) Compute and interpret Pearson's correlation coefficient for the following data on length (x in cm) and weight (y in grams) of gold fish.

X	7	5	6	3	4	2	4	8	5
Y	26	18	20	9	12	8	13	30	16

Or

- (b) "Outline the concept of regression analysis, its types, assumptions and applications in biostatistics".

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19. (a) Conclude the importance of primary and secondary memory in computer systems by describing their types.

Or

- (b) Categorize the similarities and differences between Linux and UNIX by explaining their features, advantages and applications.
20. (a) Elucidate the process of slide typecasting, viewing slides and creating slide shows in MS Powerpoint.

Or

- (b) "Analyze the concept of the World Wide Web by explaining its working principles, advantages and applications".