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Reg. No.....

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**M.Sc. DEGREE EXAMINATION, FEBRUARY 2011**

**First Semester**

Faculty of Science

Branch VIII—Zoology

Paper IV—BIostatistics AND COMPUTER APPLICATIONS

Time : Three Hours

Maximum :75 Marks

**Section I**

Answer any **ten** of the following  
Each question carries 2 marks.

1. What is called regression ? ✓
2. What is primary and secondary data ? Give an examples ?
3. Explain standard deviation ?
4. Define dispersion ?
5. What are the merits of mean ?
6. What is Chi-square test ?
7. What are the advantages of using a random sampling ? ✓
8. What is Bionomial distribution ?
9. Define null and alternative hypothesis ? ✓
10. What are the kinds of probability ?
11. Explain VBG. ✓
12. What is Kurtosis ? ✓ *Kurtosis*
13. State any four features of MS-Word ?
14. Write on network ? ✓
15. What is Biosis ? ✓

(10 × 2 = 20 marks)

## Section II

Answer any **eight** of the following  
Each question carries 5 marks.

16. What is data summarization and data processing ?
17. Explain the types of regression analysis ? ✓
18. Write notes on ~~Poisson~~ <sup>Normal</sup> distribution. ✓
- ✓ 19. Calculate arithmetic mean for following data ?

X	8	10	12	15	18
Y	5	7	12	6	10

20. Define the terms Hardware and software ? ✓
21. Describe measure probability ?
22. Discuss the main characteristics of normal distribution ?
23. Write the interpretation of Karl Pearson co-efficient of correlation ? ✓
24. Explain the measures of variation in detail ?
25. Explain 't' test ? ✓
26. What are high level language ? What are its advantages.
27. Describe the organisation and function of CPU ? ✓

(8 × 5 = 40 marks)

## Section III

Answer any **one** of the following.  
Each question carries 15 marks.

28. Calculate mean, median and mode from the following data ?

Class interval :	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency :	4	12	40	41	27	13	9	4

29. What is regression analysis ? Indicate its utility in economic analysis and biology ? ✓
30. Give brief account of the various input and output devices of a computer ?

(1 × 15 = 15 marks)