

**D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1****SEMESTER EXAMINATIONS****NOVEMBER - 2016****RZ05A****BIostatistics and Bioinformatics****Time : 3 Hours****Max. Marks: 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.****Define/ Explain the following.**

1. Census.
2. Data.
3. Median.
4. Range.
5. Independent event.
6. Binomial distribution.
7. Data Bases.
8. DDBJ.
9. PAM.
10. Parsimony.

**SECTION – B ( 5 x 5 = 25 )****Answer any FIVE of the following questions.**

11. Mention the advantages of sampling.
12. List out the parts of the table.
13. Calculate arithmetic mean for the following data.  
55, 25, 30, 21, 47, 10, 35, 45, 15, 17.
14. Calculate median for the given data.  
65, 75, 100, 120, 140, 160.
15. List out the rules of probability.
16. Mention the properties of normal distribution.
17. TrEMBL - Explain.
18. Write a note on BLOSUM.

**SECTION – C ( 3 x 10 = 30 )****Answer ALL the questions.**

19. (a) Explain about the collection of Primary data.

(Or)

- (b) Discuss about the Bar diagram.

20. (a) Calculate mean deviation for the given data.

Class Interval	0 - 6	6 - 12	12 - 18	18 - 24	24 - 30
Frequency	4	6	8	5	2

(Or)

- (b) Explain about the measures of dispersion.

21. (a) Give an account on the Protein Data Bank.

(Or)

- (b) Explain about the multiple sequence alignment and phylogenetic tree.

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