

REG.NO

TIME: 3 HOURS

SECTION – B**(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Differentiate between Saturated and Unsaturated fatty acids.
(OR)
b) Classify Proteins based on their solubility. With examples.
12. a) Describe the steps involved in Glucogenesis.
(OR)
b) Explain the mechanism of transamination.
13. a) Illustrate the tools and techniques of Data mining.
(OR)
b) Write a short note on Virtual library.
14. a) State and explain the types of Proteomics.
(OR)
b) Narrate the applications of Bioinformatics.
15. a) Summarize the usage of RasMol tool.
(OR)
b) Derive the types of BLAST services available in NCBI.

SECTION – C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21)****(K4) OR (K5)**

16. Describe in detail the β – Oxidation of Fatty acids.
17. Outline the classification of Carbohydrates. Explain them with an example.
18. Discuss the steps involved in Krebs's cycle.
19. Classify biological databases with their characteristic features.
20. Elaborate the goals and techniques used in Human Genome Project. Highlight their benefits.
21. Illustrate the methods in the construction of Phylogenetic tree.

A-11
