

www.FirstRanker.com

www.FirstRanker.com

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(BT) (2013 to 2017) (Sem.–2) BIOCHEMISTRY Subject Code : BSBT-108 Paper ID : [F0237]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) What is glycosidic bond? Write the structure consisting of this bond.
- b) What is denaturation of proteins?
- c) Define enzymes. Give an example.
- d) Write the structure of Chitin and its functions.
- e) Write the names and structures of two unsaturated fatty acids.
- f) Write the names and structure of an aromatic amino acid.
- g) What is the role sphingolipids in a cell?
- h) Write the function of lipoproteins.
- i) Write the structure of cyclic AMP.
- j) What is hypochromicity in context to DNA?



www.FirstRanker.com

www.FirstRanker.com

SECTION-B

- 2) Write a note on protein degrading enzymes.
- 3) Discuss in brief the method of isolation of nucleic acids.
- 4) Distinguish between standard and non standard amino acids with examples.
- 5) Describe the double helical Watson and Crick model of DNA.
- 6) Discuss mutarotation and explain with an example.

SECTION-C

- 7) Write the molecular structure and functions of various phospholipids and glycolipids you have studied.
- 8) Describe the secondary, tertiary and quaternary structures present in proteins with diagrams.
- 9) Write the biological functions of DNA and RNA in detail. Also discuss the functions and specific roles of various specialized nucleosides and nucleotides.