5/H-64 (vi) (Syllabus-2015)

2017

(October)

BIOCHEMISTRY

(Honours)

(Nutritional and Clinical Biochemistry)

(BCHEM-502)

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer four questions, taking at least one from each Part

PART-A

- 1. (a) Discuss the nutritive and physiological roles of proteins and fats. 3½+3½=7
 - (b) Describe the biological roles of any two of the following: 3½×2=7
 - (i) Vitamin A
 - (ü) Iron
 - (iii) Vitamin C

- (b) What is RDA? Discuss the nutritive values of various foods. 2+5=7
- 3. (a) What is overnutrition? Discuss its implication and prevention. 2+5=7
 - (b) Discuss the cause and prevention of protein-calorie malnutrition.

PART—B

- 4. (a) Discuss the significances of clinical biochemistry in diagnosis of diseases.
 - (b) What are the advantages of automated procedures over manual procedure in clinical diagnostics?
- 5. (a) Describe the procedure involved in the collection and preservation of plasma and CSF.
 - (b) How can biochemical analysis of urine sample be used for diagnostic purpose?

- 6. (a) What are isoenzymes? Discuss their relevance in clinical diagnosis. 2+5=7
 - (b) Discuss the clinical significances of the following enzymes: 3½+3½=7
 - (i) Lactate dehydrogenase
 - (ii) SGOT
- 7. (a) Discuss the parameters associated with the following: 5+5=10
 - (i) Liver function test
 - (ii) Kidney function test
 - (b) Discuss the factors and outcome associated with hyper- and hypo-glycemia.

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8D-300/290

(Continued)

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