

Total number of printed pages-3

34 (1) BIOC 1.3

2018

BIOCHEMISTRY

Full Marks : 80

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

GROUP-A

- I. Essay Type Questions : Answer ***any two***
10×2=20
1. Classify Carbohydrate with suitable examples. Add a note on Mucopolysaccharides.
2. Define Enzymes. Classify them with suitable examples.
3. Describe the sources, daily requirements, functions and deficiency manifestations of Vitamin D.

Contd.

GROUP-B

- II. Answer **any eight** questions : 5×8=40
1. Write a note on Liver Function Test.
 2. Describe the different Buffer systems in our body.
 3. Describe the mechanism of hormone action in the body.
 4. What is Enzyme Inhibition? Explain.
 5. What is Collagen? Discuss its role in our body.
 6. Calculate the energy requirement of a person with sedentary work on a mixed diet with BMR 30cal/sq.m./hr and body surface area of 1.7m^2 .
 7. Enumerate functions of —
 - (a) Calcium and
 - (b) Phosphorus.
 8. Discuss the process of muscle contraction.
 9. What are essential and non-essential amino acids? Give *two* examples of each type.
 10. Describe the transport mechanism across the cell membrane.

GROUP-C

III. Answer *all* the *ten* questions: $2 \times 10 = 20$

1. What is Balance Diet?
 2. Define BMR. How many calories are required for an adult male to maintain BMR?
 3. What is Cori cycle?
 4. What is Lactose intolerance?
 5. Define lipogenesis.
 6. Define ketone bodies.
 7. What are the functions of DNA?
 8. What are the normal blood glucose levels?
 9. What is PUFA? Give examples.
 10. What is fatty liver?
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