

Total number of printed pages-3

34 (1) BIOC 1-3

2017

BIOCHEMISTRY

Full Marks : 80

Time : Three hours

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

Group - A

Answer **any two** questions out of **three** from **Group-A**.

1. Discuss the formation of glucose from non-carbohydrate substances in our body.

- (2.) Describe the mechanism of acid base balance in our body.

3. What is Urea cycle ? Describe the synthesis of urea in the body.

10×2=20

Contd.

(4)

Group - B

Answer **eight** questions out of **ten** from **Group-B**.

1. ✓ What are Ketone bodies? How Ketone bodies are formed in our body?
2. ✓ Describe the factors affecting enzyme action.
3. Describe the mechanism of hormone action in the body.
4. ✓ What is lipogenesis? Describe briefly.
5. What are the importance of dietary fibre?
6. ✓ Describe the transport mechanism across the cell membrane.
7. ✓ What is enzyme inhibition? Explain.
8. ✓ Describe briefly glycolytic pathway.
9. ✓ Discuss the different buffer systems present in our body.
10. ✓ Describe the main point of difference between DNA and RNA. $5 \times 8 = 40$

Group - C

Answer **all** questions.

1. What is reducing sugar?
2. What is BMR? Explain briefly.
3. What is Cori's cycle?
4. Define respiratory quotient and its significance.
5. What is a balance diet?
6. Describe the function of iron in our body.
7. What is HMP shunt?
8. What are the deficiency syndromes of Vitamin-A?
9. Discuss the role of collagens.
10. What is fatty liver? Explain briefly.

$2 \times 10 = 20$