

QP Code: 311020

Reg. No.....

Third Year B.Sc. Medical Biochemistry Supplementary Examinations

August 2024

Metabolism II

(2016 Scheme)

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay

(2x15=30)

1. Classify hormones based on mechanism of action. Explain the mechanism of group I hormones.
2. Describe the chemistry, sources, biochemical function, deficiency manifestations and laboratory assessment of Vitamin C.

Short Essay

(2x10=20)

3. Activation and biochemical functions of Vitamin D.
4. Catabolism of heme.

Short Answers

(6x5=30)

5. Iron metabolism.
6. Dietary fibre.
7. 17 keto steroids.
8. Biochemical basis of obesity.
9. Biochemical functions and deficiency manifestations of copper.
10. PEM (Protein Energy Malnutrition).

Comment on

(10x2=20)

11. SDA (Specific Dynamic Action) of food.
12. Vitamins with antioxidant activity.
13. Insulin receptor.
14. Haemoglobin derivatives.
15. Beta HCG.
16. Goitrogens.
17. Fluorosis.
18. Folate trap.
19. DASH diet.
20. Ceruloplasmin
