

First Year BPT Degree Supplementary Examinations, March 2018

(2010 scheme)

Biochemistry and Nutrition

Time : 3 hrs

Max marks : 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(2x10=20)

1. Define beta oxidation. Describe the steps of beta oxidation and a note on energetics and regulation. (1+5+2+2)
2. Explain the sources, biochemical functions and deficiency manifestations of vitamin D (1+5+4)

Short notes:

(10x5=50)

3. Glycogenolysis
4. Complications of diabetes mellitus
5. Cardiac markers
6. Blood buffers
7. Regulation of iron absorption
8. Alcohol metabolism
9. Compounds formed from glycine
10. Chromatography
11. Different between DNA and RNA
12. Specific dynamic action

Answer briefly:

(10x3=30)

13. Radiation hazards
14. Beriberi
15. Creatinine clearance
16. Respiratory quotient (RQ)
17. Antioxidants
18. Zellweger's syndrome
19. Essential amino acids
20. Phenylketonuria
21. Isoelectric pH
22. Km value
