

Question Paper

Exam Date & Time: 07-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

I Year Pharm D University Examination May 2024
PBT 1.3T Medicinal Biochemistry

Medicinal Biochemistry [PBT 1.3T-S1]

Marks: 70

Duration: 180 mins.

A: Long Answer Questions

Answer all the questions.

Draw diagrams wherever necessary

- 1) Explain the reactions of aerobic oxidation of Glucose in cytosol by EMP Pathway. (7)
 - a)
 - b) Discuss the energetics of aerobic glycolysis. (3)
- 2) Explain the formation and utilisation of ketone bodies. (6)
 - a)
 - b) Describe the importance of lipids as a source of energy. (4)
- 3) With the help of suitable diagram, explain the steps in transcription process. Add a note on post transcriptional modifications. (10)

B: Short Answer Questions

Answer all the questions.

- 4) Describe Adenosine Triphosphate as an energy rich compound. (5)
- 5) Write a note on IUB classification of enzymes. (5)
- 6) Discuss the urea cycle. (5)
- 7) Explain the term "folate trap". (5)
- 8) Classify ELISA techniques and explain Sandwich ELISA. (5)
- 9) Write a note on serum enzymes derived from liver. (5)

C. Give Reasons for the Following

Answer all the questions.

- 10) Substrate level phosphorylation is present in glycolysis. (2)
- 11) Coenzymes are essential for the function of some enzymes. (2)
- 12) Untreated children with phenylketonuria often give off a mousy or musty body odor. (2)
- 13) Kidneys have endocrine function. (2)
- 14) Water is considered as the solvent of life. (2)

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