



DAU-M201912

Seat No. _____

First Year D. Pharm Examination

May - 2022

1.3 Medicinal Biochemistry (Theory)

Time : 3 Hours]

[Total Marks : 70

Instructions : (1) Figure to the right indicate marks.
(2) Draw neat and clean diagram when required.

1 Answer the following questions. **10×2=20**

- (1) Define RIA and ELISA.
- (2) Enlist the tests used for lipid profile.
- (3) Write down the role of clinical chemistry laboratory.
- (4) Draw the onion peel model of DNA replication.
- (5) Define with an example transamination and deamination.
- (6) Enlist the metabolic disorders of amino acids.
- (7) Differentiate glycogenolysis and glycogenesis.
- (8) Define genetic code.
- (9) Define coenzyme and enlist enzyme inhibition.
- (10) Define the types of jaundice.

2 Answer the following questions : (Any two) **2×10=20**

- (1) Give a detailed note on citric acid cycle along with its significance and energetics.
- (2) Write down the oxidation of saturated fatty acid with beta oxidation, enlist the disorders caused by defective metabolism of lipids explain in short any one of them.
- (3) Define nucleotides. Explain metabolism of purine and pyrimidine nucleotides.

3 Answer the following questions : (Any **six**) **6×5=30**

- (1) Define and classify enzyme according to IUB with enzyme number and examples.
 - (2) Explain test for NPN constituents.
 - (3) Write a short note on electrolytes.
 - (4) Give a note on ETC and oxidative phosphorylation.
 - (5) Write down urea cycle with its significance.
 - (6) Explain the requirements of liver function test, add a note on any one test in brief.
 - (7) Differentiate glycolysis and gluconeogenesis.
 - (8) Write down about the disorders of carbohydrate metabolism.
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