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FACULTY

Pharm D (6 – YDC) I – Year (Main) Examination, August 2016

Subject: Medicinal Biochemistry

Time: 3 Hours **Max.Marks: 70**

Note: Answer all questions from Part – A. Any Five questions from Part – B.

PART – A (10x2 = 20 Marks)

1 What is genetic code? Write characteristic features of genetic code.
2 What is cystinuria? Write its clinical consequence.
3 What is Atherosclerosis? Explain briefly its pathogenesis.
4 Write the characteristics of carrier mediated transport systems.
5 Define Michaelis menten constant and write its significance.
6 What is an isoenzyme? Write clinical applications of isoenzymes.
7 What is creatinine clearance? Write its diagnostic significance.
8 What are frame shift mutations? Write the consequences of the same.
9 What are transamination reactions? Give one example.
10 Explain the role of various DNA polymerases in prokaryotic replication process.

PART – B (5x10 = 50 Marks)

11 Outline various steps involved in Eukaryotic protein synthesis.

12 Write notes on blood buffers and explain disorders of acid-base balance.

13 a) Explain the factors influencing enzyme action.
b) Write the biosynthesis and biological significance of cyclic AMP.

14 a) List out various liver function tests and explain the tests based on synthetic function of liver.
b) Write notes on urinary calculi.

15 Explain the steps involved in glycolytic pathway and explain energetics under aerobic and anaerobic conditions.

16 Write the structural components of electron transport chain and explain the mechanism of electron transport.

17 Write the steps involved in ketogenesis and explain its regulation. Add a note on ketoacidosis.

18 Explain the methods for determination of sodium, potassium and bicarbonates in body fluids.

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