Date: 05-10-2015

Preli

First Year MBBS Examination

I MBBS Biochemistry Paper 1

Time: 3 hours

Max Marks: 50

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Write short notes on: (any two) (10)
   a. Liver function test
   b. Hyperlipoproteinemia
   c. Mucopolysaccharides and related disorders
2. Write Short notes on (any three) (9)
   a. Enzyme inhibition
   b. Bilirubin metabolism
   c. Isomerism in carbohydrates
   d. Compound lipids
   e. PUFA
3. Write Short notes on (any two) (6)

a. Mechanisms of acid balance
b. Cell membrane
c. Electrophoresis

Section 2

4. Write Short notes on (any two) (10)
   a. Glycogen metabolism
   b. B oxidation of steric acid
   c. Citric acid cycle

5. Write Short notes on (any three) out of five)
   (9)
   a. Immunoglobulin
   b. Electron transport chain
   c. Heavy metal poisoning
   d. Tumor markers
   e. Detoxification of Xenobiotics

6. Read the case and answer the questions:A 50 year old obese male came to emergency department with complaints of severe chest pain. Sweating and shortness of (6) breath. ECG changes and serum enzymes level confirmed the diagnosis of acute myocardial infarction. His lipid profile shows: S Total Cholesterol=350 mg/dL: S. HDL = 35 mg/dL; S. Triglycerides = 250 mg/dL. Answer the following questions based on this clinical presentation.
   a. Name serum enzymes which are increased

in myocardial infarction patients?

b. Which is the most specific marker for diagnosing myocardial infarction?

c. Calculate S. LDL level of this patient.

d. What is the basis of prescribing statin group of drug to such patient?

e. Aspirin is given at low dose to prevent myocardial infarction.

f. Name two risk factors for coronary heart diseases other than dyslipidemia.

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