

Date: 01-01-2018

0819E373

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 the following (10)

- a) Galactosemia(A. 183)(C.277)
- b) Sickel cell disease
- c) Atherosclerosis(A.228)(C. 317,326)

2. Write Short notes of (any three) (9)

- a) Isoenzymes(A.79)(C.112)
- b) Significance of 2-3 BPG
- c) Prostaglandins(A. 243)(C.644)
- d) Glycogen(A. 144)(C.269)
- e) Allosteric enzymes(A. 66)(C.95)

3. Discuss Any TWO (6)

- a) ELISA(A. 437)(C.729)
- b) Respiratory acidosis (A.405) (C.482)
- c) Liver function test (A.357) (C.453)

Section 2

4. Write Short notes on (any two) (10)

- a) Blood glucose regulation (A.159) (C.676)
- b) Formation and breakdown of ketone bodies (A.205)(C.293)
- c) Hexose monophosphate shunt (HMP) and its significance (A.144) (C.270)

5. Write Short notes on (any two) (9)

- a) Detoxification - Phase II reaction
- b) Uses of radioactive isotopes (A.682)(C.717)
- c) Tumor marker(A. 666)(C.691)
- d) Immunoglobulin (A.649) (C.186)
- e) Uncoupler

6. Case report: A middle aged stress prone executive was admitted to ICCU under the complain of severe chest pain and discomfort. He also had family history of young (6)

death due to cardiac failure. This patient was diagnosed for MI and hypercholesterolemia. his total cholesterol was 450 mg/dl, TG was 175 mg/dl and HDL-cholesterol was 30 mg/dl. To reduce cholesterol he was given lovastatin.

- a) Write normal values of lipid profile.
- b) Calculate his LDL cholesterol
- c) Why high levels of LDL-C is not good sign?

d) Why high levels of HDL- C are

considered good?

e) Which enzymes regulate cholesterol synthesis in the body and how?

f) What is the mode of action of Lovastatin?

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