

Department of Biochemistry
GMERS Medical College Valsad
MBBS 1st Year Preliminary examination 2015-16
Biochemistry Paper 1

Time: 2hr 20 min
Marks: 40

- Instructions:** 1 *Figure to the right indicate full marks*
2 *Draw neat diagrams wherever necessary*
3 *Answer shall be legible and to the point*
4 *Write each section in separate answer books*

Section 1

Q.1 Write Short Notes (Attempt any two) **(Marks- 08)**

1. Describe the sources, absorption, daily requirement, biological function and disorders of calcium metabolism.
2. Biochemical basis of polyuria, polydipsia, and polyphagia in diabetes mellitus.
3. Metabolism of VLDL & LDL.

Q.2 Describe in Brief (Attempt any four) **(Marks- 12)**

1. Protein energy malnutrition
2. Respiratory Distress Syndrome
3. Utilization of Ketone Bodies
4. Clinical signification of dietary fiber
5. Significance of NADPH
6. Gluconeogenesis

Section 2

Q.3 Case Study **(Marks-10)**

A 52 year old male presented in emergency department with severe chest pain and Breathlessness.
After ECG and blood investigation, on duty doctor suspect about acute myocardial infarction (AMI)
Patient was admitted and streptokinase is given.

1. Which blood investigation should be done for early diagnosis of AMI?
2. Why LDH is not preferable investigation for diagnosis of AMI?
3. What is the role of streptokinase?
4. Explain the role of HDL & LDL.
5. What are the risk factors for coronary artery disease?

Q.4 Answer in few lines (Attempt any five.) **(Marks-10)**

1. Lead poisoning causes anemia.
2. Aspirin is used as an anti-inflammatory agent.
3. Inulin is used to measure glomerular filtration rate
4. Glucose is added in oral rehydration solution (ORS) for the treatment of diarrhea.
5. Human beings cannot digest cellulose
6. Leukotrienes are chemotactic agents
7. Phospholipids is fundamental to structure of cell membrane.

