

15M00A05

Madhya Pradesh Medical Science University

First MBBS (Main) Examination 2015

Biochemistry Paper 1

Time : 3 Hours

Maximum Marks: 50

- Note (a) Attempt all questions in the same serial order.
(b) Draw well labelled diagrams wherever necessary.

- Q1 Enumerate sources of Vitamin D, describe its biosynthesis and explain why Vitamin D is called hormone. 5
- Q2 Explain the pathway of Glycogen synthesis and glycogenolysis. In short explain role of branching and de-branching enzymes. 5
- Q3 Write short notes on:
- (A) Endoplasmic reticulum 3
 - (B) Fluid mosaic model of biological membrane 3
 - (C) Electrophoresis 3
 - (D) Selenocysteine 3
 - (E) Na-K ATPase 3
 - (F) Cytochrome p450 3
 - (G) Inhibitors of Electron transport chain 3
 - (H) Biosynthesis of thyroxine 3
 - (I) Isoenzymes 3
 - (J) Tyrosinemia 3
- Q4 Write in brief:
- (A) Enumerate mechanisms of enzyme action 1
 - (B) Enumerate functions of glutathione 1
 - (C) Enumerate antioxidant vitamins 1
 - (D) Enumerate lipoproteins in human plasma 1
 - (E) Enumerate mechanisms of enzyme inhibition 1
 - (F) Enumerate functions of zinc 1
 - (G) Differentiate between starch and glycogen 1
 - (H) Why urea cycle is called a Bicycle 1
 - (I) Alkaptonuria 1
 - (J) Draw structure of cholesterol 1

Handwritten notes at the bottom of the page:

Very previous 15, 16, 17

BIOC 19/10/21