

16M00A05

Madhya Pradesh Medical Science University

First MBBS Examination Aug - Sep 2016

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 major sources of Vitamin K, describe its functions and effects of its deficiency. (1+3+1)
- Q2 Describe the components and chemiosmotic theory of electron transport chain.
- Q3 Write short notes on:
- (A) Cyclic AMP (cAMP)
 - (B) Biological role of Calcium.
 - (C) High Density Lipoprotein cycle.
 - (D) Biomedical role of vitamin C
 - (E) Role of Niacin as Coenzyme
 - (F) Biological importance of peptides
 - (G) Cytochrome P450
 - (H) Isoenzymes and their diagnostic importance
 - (I) Golgi apparatus
 - (J) Synthesis and biological role of bile salts
- Q4 Write in brief:
- (A) Formiminoglutamic acid (FIGLU)
 - (B) Name the insulin dependent glucose transporters and their tissue distribution
 - (C) Define beta oxidation
 - (D) Write the normal serum calcium and phosphate levels
 - (E) What is Suicide inhibition? Give an example
 - (F) List 2 differences between hexokinase and glucokinase
 - (G) List 2 differences between marasmus and kwashiorkor
 - (H) Name the derivatives of tyrosine
 - (I) Haemoglobin S.
 - (J) Give two examples of substrate level phosphorylation