

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination Aug-Sep
2016
Subject- Biochemistry
Paper-I**

Time: 3:00 Hours

Maximum Marks:50

Instructions:

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.
- d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means

Q1. Long Answer questions – 10 MARKS

- a. Enumerate major sources of vitamin K, describe its functions and effects of its deficiency (1+3+1)
- b. Describe the components of chemiosmotic theory of electron transport chain 5

Q2. Short Answer Questions – 30 MARKS

- a. Cyclic AMP 3
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- b. Biological role of calcium 3
- c. High density lipoprotein cycle 3
- d. Biomedical role of vitamin C 3
- e. Role of niacin as Coenzyme 3
- f. Biological importance of peptides 3
- g. Cytochrome p450 3
- h. Isoenzymes and their diagnostic importance 3
- i. Golgi apparatus 3
- j. Synthesis and biological role of bile salts 3

Q3. Very Short Answer Questions – 10 MARKS

- a. Formiminoglutamic acid (FIGLU) 1
 - b. Name the insulin dependent glucose transporters and their tissue distribution 1
 - c. Define beta oxidation 1
 - d. Write the normal serum calcium and phosphate levels 1
 - e. What is suicide inhibition. Give example 1
 - f. List 2 differences between hexokinase and glucokinase 1
 - g. List 2 differences between marasmus and kwashiorkor 1
 - h. Name the derivatives of tyrosine 1
 - i. Hemoglobin S 1
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j. Give two examples of substrate level phosphorylation

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