

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2018
Summer
Subject- Biochemistry
Paper-I**

Time: 3:00 Hours

Maximum Marks:50

- 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

- a. Draw urea cycle. Describe the inherited disorders of urea cycle. Write in brief the biochemical basis of treatment of hyperammonemia
- b. Describe the β oxidation of fatty acids with its energetics. Write a note on biochemical significance of β oxidation of fatty acids

$$2 \times 5 = 10$$

Q2. Short Answer Questions

- a. Fluid mosaic model of membrane structure
- b. Synthesis and deficiency disorders of vitamin D
- c. Derivatives of monosaccharides and their biomedical importance
- d. Rapaport luebering cycle
- e. Hormones of adrenal gland and their functions
- f. Glutathione
- g. The regulation of plasma calcium
- h. Detoxification od aspirin
- i. Irreversible inhibition of enzymes
- j. Role of dopamine in Parkinson's disease

$$10 \times 3 = 30$$

Q3. Very Short Answer Questions

- a. Essential amino acids
 - b. Name of different isomers of glucose
 - c. Iodine number
 - d. FIGLU test
 - e. Menke's syndrome
 - f. Reichert-Meissl value
 - g. Biomedical importance of sorbitol pathway
 - h. Pellagra
 - i. Fluoride toxicity
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j. Hypernatremia

$$10 \times 1 = 10$$

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