

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2017
Summer
Subject- Biochemistry
Paper-I**

Time: 3:00 Hours

Maximum Marks :50

Instructions:

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c)
- d)

Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.

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

Long Answer questions

Q1.

a. Write a detailed essay on glycogen synthesis and degradation. Give an account of their regulation

2 x 5 = 10

b. Write an essay on the biosynthesis of urea. How is it regulated? Add a note on the clinical significance of _____

Short Answer Questions

Q2.

- a. Active transport
- b. Describe the biomedical functions and deficiency manifestations of vitamin D
- c. Classify lipoproteins and write the functions of each lipoprotein
- d. Glycosaminoglycans
- e. Describe the stages of absorption, transport and storage of iron in the body
- f. Competitive inhibition
- g. Role of clearance tests in kidney function
- h. Amino acids classification based on their nutritional importance
- i. What are isoenzymes? Discuss the clinical significance of different isoenzyme variant of CK
- j. Detoxification by conjugation

Very Short Answer Questions

Q3. $10 \times 1 = 10$

- a. Scurvy
 - b. Fluorosis
 - c. Bile salts
 - d. Factors affecting calcium absorption
 - e. Isoelectric pH
 - f. Mitochondria
 - g. PUFA
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- h. Phagocytosis
- i. Cytochrome p450
- j. Pellagra

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