



Madhya Pradesh Medical Science University, Jabalpur
MBBS 1st Professional Examination 2017(summer)

Question Paper Code - 17AM0000100031
Biochemistry - Paper 1

Time : 3:0 Hours

Maximum Marks: 50

Note:

Instructions:

- 1) All questions are compulsory
- 2) Draw diagrams wherever necessary.
- 3) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued.
- 4) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.

Q.1 Long Answer Question

2 x 5 = 10

- A) Write a detailed essay on Glycogen synthesis and degradation. Give an account of their regulation.
- B) Write an essay on the biosynthesis of Urea. How it is regulated? Add a note on the clinical significance of uremia.

Q.2 Write Short Notes

10 x 3 = 30

- A) Active Transport
- B) Describe the biochemical functions and deficiency manifestations of Vitamin D
- C) Classify lipoproteins and write the functions of each lipoproteins
- 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

Q.3 Write Short Notes

10 X 1 = 10

- A) Scurvy
- B) Fluorosis
- C) Bile salts
- D) Factors affecting Calcium absorption
- E) Isoelectric PH
- F) Mitochondria
- G) PUFA
- H) Phagocytosis
- I) Cytochrome P450
- J) Pellagra