

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2015
Subject- Biochemistry
Paper- II**

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

Long Answer questions – 10 MARKS

Q1. 2 x 5 = 10

- a. Discuss the elongation steps of translation (protein synthesis)
- b. Enumerate the various tests of kidney function.
Explain how creatinine clearance is superior to urea clearance test

Short Answer Questions – 30 MARKS

Q2. 10 x 3 = 30

- a. Genetic code
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- b. RNA splicing
- c. Gout
- d. Dehydration
- e. SDA
- f. Metabolic acidosis
- g. Calculate caloric requirement of a painter
- h. Glucose tolerance test
- i. Catabolism of pyrimidines
- j. Formation and fate of bilirubin

Very Short Answer Questions – 10 MARKS

Q3. 10 x 1 = 10

- a. Purine ring sources of its components
- b. Enumerate normal anion gap acidosis
- c. Enumerate steps of DNA replication
- d. Enumerate clinical features of kwashiorkor
- e. Enumerate abnormal variants of hemoglobin
- f. Enumerate types of DNA repair
- g. Structure of immunoglobulin
- h. Enumerate various extracellular buffers
- i. Biological role of 2,3 BPG
- j. Enumerate different components of colorimeter
