

**Madhya Pradesh Medical Science University,  
Jabalpur**  
**MBBS First Professional Examination Aug-2019**  
**Subject- Biochemistry**  
**Paper- II**  
**(NEW SCHEME)**

Time: 3:00 Hours

Max. 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**

Q1.  $2 \times 5 = 10$

- a. Write a note on purine metabolism. Add a note on gout
- b. Describe the process of protein biosynthesis. Add a note on post translational modifications

**Short Answer Questions**

Q2.  $10 \times 3 = 30$

- ~~a. Tumour markers~~
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- b. Liver function tests
- C. Air pollution. Enumerate its effects on health
- d. Recombinant DNA technology
- e. KFT
- f. Porphyrias
- g. Immunoglobulin
- h. Chromatography
- i. DNA repair mechanism
- j. Lac operon model

## Very Short Answer Questions

Q3.  $10 \times 1 = 10$

- a. Normal reference range of sodium and potassium
- b. siRNA
- C. histone proteins
- d. Oncogens
- e. DNA fingerprinting
- f. Synthetic nucleotides
- g. Lesch Nyhan syndrome
- h. Ubiquitin
- i. HbS
- j. SDA

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