

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

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. Give a detailed account of transcription process. How is it regulated? Give the name of inhibitors of transcription
- b. Describe the de-novo synthesis of purine nucleotides. Indicate the clinical uses of inhibitors of purine nucleotide synthesis

2 x 5 = 10

Q2. Short Answer Questions

- a. Water intoxication
- b. Health hazards
- c. Renal regulation by acid base balance
- d. PCR (Polymerase chain reaction)
- e. Free radicals and anti-oxidants
- f. Gout
- g. SDA
- h. Tumour markers and oncogenes
- i. Abnormal hemoglobin
- j. Kidney function tests

10 x 3 = 30

Q3. Very Short Answer Questions

- a. Biologically important nucleotides
 - b. Role of fiber in the body
 - c. Give clinical symptoms of porphyria
 - d. Principles of ELISA
 - e. Biological carcinogens
 - f. Cardiac markers
 - g. Reactive oxygen species (ROS)
 - h. Give four characteristics of genetic code
 - i. Significance of quality control in lab
 - j. ~~Central dogma of molecular biology~~
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