

**Madhya Pradesh Medical Science University, Jabalpur****MBBS First Professional Examination Dec-2022****Paper Code- 22BM0000100032****Subject- Biochemistry (Old Scheme)****Paper-II**

Time: 3:00 Hours

Maximum Marks :50

Instructions:

- All questions are compulsory
- Draw diagrams wherever necessary
- Answers of Questions and Sub questions must be written strictly according to the serial order of question paper.
- Subjective Answer should be answered in up to 30 words per marks. For example if a question having 2 marks answer should be answered in up to 50 words.

Q.1 Long Answer Questions [ 2X5 = 10 ]

- Write a detailed essay on how heme is synthesized in the body. Add a note on various porphyrias.
- Describe the process of transcription and add a note on post transcription modifications.

Q.2 Short Answer Questions [ 10X3 = 30 ]

- Explain cause of gout and clinical findings & treatment.
- Enumerate enzymes of urea cycle.
- Enumerate tumor markers & their application.
- Explain role of kidney in blood pH regulation.
- Explain principle of PCR & its applications.
- Define BMR & enumerate factors affecting BMR.
- Explain type of jaundice with example.
- Define oxidative stress and enumerate different anti-oxidants.
- Define mutation & explain different type of mutation with example.
- Explain different clearance tests.

Q.3 Very Short Answer Questions [ 10X1 = 10 ]

- a. Bence jones protein
- b. Window period
- c. What is Lesch -Nyhan syndrome.
- d. Medical uses of isotopes
- e. What is specific dynamic action.
- f. Name two acute phase proteins.
- g. Von gierkes disease.
- h. Name two bile salts and two bile pigments.
- i. Give two causes of metabolic acidosis.
- j. What is anion gap.

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