

Madhya Pradesh Medical Science University, Jabalpur**MBBS First Professional Examination Feb-2023****Paper Code- 23BM0000100032****Subject- Biochemistry (Old Scheme)****Paper-II****Instructions:**

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper.
- d) 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 60 words.

Q1 Long Answer Questions**2x5=10**

- a. Describe the catabolism of heme in the body.
- b. Write a long note on the Recombinant DNA technology and its applications in Medicine.

Q2 Short Answer Questions**10x3=30**

- a. Dietary fiber
- b. Genetic code
- c. Polymerase chain reaction
- d. Tumor markers
- e. Creatinine clearance test
- f. Gout
- g. Draw the Structure of tRNA.
- h. BMR and its factors effecting.
- i. Functions of nucleotides.
- j. Abnormal Haemoglobins.

Q3 Very Short Answer Questions**10x1=10**

- a. What is the key enzyme of de novo synthesis pathway of purines?

- b. What is mutation? Give one example of point mutation.
- c. Give two causes of metabolic alkalosis.
- d. What is reverse transcription?
- e. What is anion gap?
- f. Medical uses of isotopes
- g. antioxidants
- h. Okazaki fragments
- i. Enumerate the plasma proteins.
- j. Triplet sequence of all 3 nonsense codons.

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