

Madhya Pradesh Medical Science University, Jabalpur

MBBS First Professional (Supplementary) Examination July-2023

Subject- Biochemistry (New Scheme)

Paper-II

Paper Code-23BM0000100032

Time: 3:00 Hours Maximum Marks :100

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) MCQ has to be answered in theory answer book
- e) Please write MCQ answer neatly and in serial order with black or blue pen in brackets for example:- 1. (a) 2. (b)
- f) MCQ has to be answered only once, any kind for repetition or cutting or erasing or whitener will be consider as malpractice.

Such answers will not be counted in the marks and action will be taken according to UFM rules of University

g) 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.

Q.1 Total MCQs: 10 10x1=10

- 1. Inhibitor of bacterial topoisomerase enzyme:
 - a. Etoposide
 - b. Mercaptopurine
 - c. Adriamycin
 - d. Novobiocin
- 2. Enzyme responsible for respiratory burst is
 - a. NADPH-oxidase
 - b. Nitric oxide synthase
 - c. Glutathione peroxidase





d. Catalase

3. Immunoglobin that can cross placenta is
a. IgA
b. IgG
c. IgM
d. IgD
4. DNA finger printing was found by
a. Watson
b. Galton
c. Jeffrey
d. Walds
5. Good quality of protein can be assessed by
a. Biological value
b. Amino acid score
c. Net protein
d. All of the above
C. P.O
6. All are antioxidants Enzymes except
a. Superoxide dismutase
Superoxide dismutase B. Glutathione peroxidase Glutathione reductase
c. Glutathione reductase
d. Glucose 6 Phosphate Dehydrogenase
7. Which part of tissue of body has largest portion of total body water?
a. ICF
b. ECF
c. Plasma
d. Interstitial fluid





a. Mutagens

8. All of these genes are oncogenic except:

b. Oncogenes
c. Carcinogens
d. Antioncogenes
9. Which of the following is known as a chain-breaking antioxidant?
a. Ascorbic acid
b. Selenium
c. Zinc
d. Bilirubin
10. Morphine poisoning causes
a. Metabolic acidosis
b. Respiratory acidosis
c. Metabolic alkalosis
d. Respiratory alkalosis
C ank
Q.2 Long Answer Questions
1. A 30-year-old man presented with fever, shaking chills, headache, muscle pain and tiredness. He
also complained of nausea, vomiting, diarrhoea and yellow discolouration of the skin. He was diagnosed with malaria.
a) What is jaundice?
b) What type of jaundice is seen in patients with malaria and why?
c) What is Van den Bergh test?
d) What will be result of van den Bergh test in this case and why?
e) What will be the urinary findings in this case?
b. Describe various Blood Buffer systems of our body. Write a note on disorders associated with



derangements of Acid Base Balance.



Q.3 Brief Answer Questions

6x5=30

- a. Write about molecular basis of cancer with their suitable examples.
- b. Define the free radicals and write diseases associated with them.
- c. Classify types and give clinical features of Protein Energy Malnutrition.
- Role of Physician towards society and community.
- e. Explain derivatives of hemoglobin.
- Recombinant DNA Technology (Genetic Engineering) and its applications.

Q.4 Short Answer Questions

10x2=20

- a. Naturally occurring unusual purine and pyrimidine bases.
- b. Lesch-Nyhan Syndrome.
- c. Primary dehydration.
- d. Quality control in laboratory.
- www.FirstPaanker.com e. Give normal level of urea and creatinine.
- f. Types OF RNA and their functions.
- g. Abnormal Hemoglobulin.
- h. Automation in Clinical Laboratory.
- Xeroderma pigmentosa.
- j. Immunoglobulins.

