

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS Second Professional Examination Feb-
2023**

**Subject- Pharmacology
Paper-I (new scheme)**

Time: 3:00 Hours

Max. Marks: 75

- 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) 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. (c)**
- f) MCQ has to be answered only once, any kind of repetition or cutting or erasing or whitener will be considered as malpractice, such answers will not be counted in 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 should answered in up to 60 marks.**

Q1. Total MCQs: 10 – 10 x 1 = 10

- 1) All of the following reactions are catalyzed by microsomal enzymes EXCEPT-
- (a) Glucuronidation
 - (b) Acetylation
 - (c) Oxidation
 - (d) Glutathione conjugation
- 2) A patient Raj Kishore was given pilocarpine. All of the following can be the features seen in him EXCEPT-
- (a) Sweating
 - (b) Salivation
 - (c) Miosis
 - (d) Cycloplegia
- 3) Antagonism between acetylcholine and atropine
- (a) Competitive antagonism
 - (b) Physiological antagonism
 - (c) Non Competitive antagonism
 - (d) Irreversible antagonism
- 4) Which drug should not be given in pregnancy?
- (a) Labetalol
 - (b) ACE inhibitors
 - (c) Hydralazine
 - (d) Methyl dopa
- 5) Which of the following is NOT an adverse effect of heparin
- (a) Bleeding
 - (b) Thrombocytopenia
 - (c) Hypokalemia
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(d) Osteoporosis

6) In the middle of a clinical trial, one participant decides to withdraw from the trial. But, the investigator pressurizes the participant to continue in the study till it completes. Which of the following ethical principles does the investigator violate

- (a) Justice
- (b) Autonomy
- (c) Beneficence
- (d) Non-Maleficence

7) The treatment of orthostatic angina is

- (a) Nitroglycerine & Atenolol
- (b) Nitroglycerine & Diltiazem
- (c) Amlodipine & Atenolol
- (d) Fludrocortisone & High sodium diet

8) Drug of choice for Congenital long QTc syndrome is

- (a) MgSo₄
- (b) Digitalis
- (c) Propranolol
- (d) Ibutilide

9) Which of the following act by inhibiting cGMP degradation

- (a) Nitrates
- (b) ANP
- (c) Sildenafil
- (d) BNP

10) Drug of choice for cancer chemotherapy induced early

vomiting is

- (a) Domperidon
- (b) Aprepitant
- (c) Ondansetron
- (d) Hyoscine

Q2. Long Answer Questions – 2 x 20 = 40

- a. Classify beta blockers and discuss therapeutic uses and adverse effects of propranolol.
- b. Classify drugs used in bronchial asthma and discuss therapeutic uses and adverse effects of salbutamol.

Q3. Brief Answer Questions – 6 x 05 = 30

- a. First order kinetics.
- b. Pharmacotherapy of open angle glaucoma.
- c. Iron preparations and iron therapy
- d. Enumerate loop diuretics, their mechanism of action, indications and adverse effect.
- e. Compare and contrast between Competitive and non competitive antagonism.
- f. Classify antiplatelet agents with examples. Write their indications and adverse effects

Q4. Short Answer Questions – 10 x 2 = 20

- a. Enumerate four uses of carbonic anhydrase inhibitors
- b. Enumerate four drugs for prophylaxis of migraine
- c. Enumerate four mucolytic expectorants

- d. Enumerate Four uses of Proton pump inhibiting drugs
- e. Topical nasal decongestants
- f. Enumerate advantages of low molecular weight heparin
- g. Pharmacological management of organophosphorus poisoning
- h. Define pharmacogenetics with suitable examples.
- i. Explain the pharmacological basis of using pyridostigmine in myasthenia gravis.
- j. Explain the pharmacological basis of using adrenaline in the management of anaphylactic shock.

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