

**Madhya Pradesh Medical Science University,  
Jabalpur**  
**MBBS Second Professional Examination August-  
2024**  
**Subject- Pharmacology**  
**Paper- II (new scheme)**

Time: 3 Hours

Max. 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 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
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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. Action of flumazenil on benzodiazepine receptor is:
  - (a) Agonist
  - (b) Partial agonist
  - (c) Inverse agonist
  - (d) Antagonist
2. Which of the following drug should not be given along with levodopa:
  - (a) Carbidopa
  - (b) MAO inhibitors
  - (c) Vitamin B complex
  - (d) Benserazide
3. Which of the following statement about phenytoin is true?
  - (a) It follows zero order kinetics
  - (b) It is not teratogenic
  - (c) It is excreted unchanged in urine
  - (d) It does not induce microsomal enzymes
4. Erythromycin is given in intestinal hypomotility because:
  - (a) It increases bacterial count
  - ~~(b) It decreases bacterial count~~

- (c) It binds to adenylyl cyclase  
(d) It binds to motilin receptors
5. Which of the following drug does not induce extrapyramidal side effects?
- (a) Metoclopramide  
(b) Domperidone  
(c) Haloperidol  
(d) Chlorpromazine
6. Uricosuric drug among these is:
- (a) Probenecid  
(b) Colchicine  
(c) Allopurinol  
(d) All of these
7. Drug causing Fanconi's syndrome is:
- (a) Tetracycline  
(b) Ciprofloxacin  
(c) Gentamicin  
(d) Clarithromycin
8. Which is the common side effect of aminoglycoside antibiotics:
- (a) Nausea  
(b) Abdominal pain  
(c) Nephrotoxicity  
(d) Hepatotoxicity
9. Which of the following is the most common paradoxical side effect of Indomethacin:
- ~~(a) Hypersensitivity~~
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- (b) Peptic Ulcer
- (c) Frontal headache
- (d) Nephropathy

10. Which anesthetic agent is contraindicated in epilepsy?

- (a) Xenon
- (b) Enflurane
- (c) Halothane
- (d) Ether

### **Q2. Long Answer Questions – 2 x 20 = 40**

a. A 45-year male diagnosed as a case of schizophrenia based on disturbed thinking process, inappropriate talking and behavior, restlessness, bursts of temper, anxiety, poor self-care, disturbed sleep, delusional beliefs, and occasional auditory hallucinations. (5+5+5+5)

I. Classify the drugs used for the treatment of above condition and enumerate the longer acting injectables (LAI) for the same.

II. Write down the mechanism of action and uses of Haloperidol.

III. Adverse drug reactions of Haloperidol and its management.

IV. Compare between Haloperidol and Olanzapine.

b. A 45-year male office executive with sedentary lifestyle was diagnosed to have developed type 2 diabetes mellitus. His fasting and post-meal blood glucose was 150 mg/dl and 240 mg/dl respectively, HbA1C was 7.8%, BP was 150/92 mm Hg. He was advised suitable diet,

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exercise, and other lifestyle modifications. (5+5+5+5)

- I. Classify Oral Antidiabetic agents and Enumerate the Insulin analogues.
- II. Mechanism of action of Sulfonylureas.
- III. Mechanism of action and Advantages of Metformin.
- IV. Management of Diabetic coma.

### **Q3. Brief Answer Questions – 6 x 05 = 30**

- a. Differentiate between Benzodiazepine and Barbiturate.
- b. Discuss the therapeutic uses of Corticosteroids.
- c. Write a short note on Pre-anesthetic medications.
- d. Mechanism and Adverse effects of Sulphonamides antibiotics.
- e. Discuss the adverse effects of first line Antitubercular drugs.
- f. Management of severe complicated falciparum malaria.

### **Q4. Short Answer Questions – 10 x 2 = 20**

- a. Enumerate drugs used for treatment of MRSA (Methicillin Resistant Staphylococcus Aureus)
- b. Write in brief about mechanism of Colchicine in Gout.
- c. Name any four atypical antidepressants.
- d. Explain, Why Ethyl alcohol is used in methyl alcohol poisoning.
- e. Explain why, Aspirin is contraindicated in children with viral fever.
- f. ~~Enlist the important adverse effects of Amphotericin-B.~~

- g. Name any four biological agents used in Rheumatoid Arthritis.
- h. Explain, why Cilastatin is combined with imipenem.
- i. Mention disadvantage of using selective COX-2 inhibitor.
- j. Write two Second generation antihistamines and their two uses.

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