

**Madhya Pradesh Medical Science University,
Jabalpur**
**MBBS Second Professional Examination June-
2023**
Subject- Pharmacology
Paper- II (old scheme)

Time: 3:00 Hours

Maximum Marks: 40

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 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 words.

Q1. Total MCQs: 16

$$16 \times 1/2 = 8$$

1. Fourth Generation cephalosporin is

- (a) Cefepime
- (b) Cefprozil
- (c) Cefixime
- (d) Cefadroxil

2. Antagonist of Benzodiazepine is

- (a) Naltrexone
- (b) Flumazenil
- (c) Naloxone
- (d) N-Acetyl-cysteine

3. Which of the following drug can decrease the size of prostate

- (a) Prazosin
- (b) Sildenafil
- (c) Finasteride
- (d) Testosterone

4. Cryptococcal Meningitis is treated with

- (a) Griseofulvin
- (b) Amphotericin B
- (c) Posaconazole
- (d) Caspofungin

5. Dissociative anesthesia is seen on administration of:

- (a) Ether

(b) Halothane

- (c) Enflurane
- (d) Ketamine

6. Which of the following drug is a SERM useful for treatment of osteoporosis?

- (a) Raloxifene
- (c) Letrozole
- (b) Bisphosphonate
- (d) Calcitonin

7. Drug of choice for prophylaxis of Mania is:

- (a) Clozapine
- (b) Haloperidol
- (c) Lithium
- (d) Diazepam

8. Total dose of chloroquine (250 mg Tablet) in Vivax malaria is:

- (a) 4
- (b) 6
- (c) 8
- (d) 10

9. Tramadol is

- (a) Anti-flatulent
- (b) Anti-reflux drug
- (c) Beta-Blocker
- (d) Opioid analgesic

10. Drug used as aversion therapy in Alcohol

dependence is:

- (a) Disulfiram
- (b) Diazepam
- (c) Propranolol
- (d) Methadone

11. Which neurotransmitter system is primarily targeted by tricyclic antidepressants (TCAS)?

- (a) Dopamine
- (b) Serotonin
- (c) GABA
- (d) Norepinephrine

12. Which of the following analgesic drugs is a selective cyclooxygenase-2 (COX-2) inhibitor?

- (a) Ibuprofen
- (b) Acetaminophen
- (c) Celecoxib
- (d) Morphine

13. Which of the following medications used in the treatment of gout works by increasing renal excretion of uric acid?

- (a) Colchicine
- (b) Allopurinol
- (c) Febuxostat
- (d) Probenecid

14. Which of the following medications is a glucocorticoid receptor antagonist used for the treatment of Cushing's syndrome?

- (a) Insulin lispro
- (b) Metoprolol
- (c) Mifepristone
- (d) Pioglitazone

15. Which of the following drugs is a nitroimidazole that is commonly used for the treatment of trichomoniasis and giardiasis?

- (a) Chloroquine
- (b) Metronidazole
- (c) Atovaquone
- (d) Mefloquine

16. Which storage temperatures is recommended for maintaining the stability and potency of most vaccines?

- (a) -20°C (-4°F)
- (c) $15-25^{\circ}\text{C}$ ($59-77^{\circ}\text{F}$)
- (d) 37°C (98.6°F)
- (b) $2-8^{\circ}\text{C}$ ($36-46^{\circ}\text{F}$)

Q2. Long Answer Questions $2 \times 5 = 10$

- a. Classify Antiepileptic drugs based on their Mechanism of Action. Write Uses and Adverse Effects of Phenytoin.
 - b. Classify first- and second-line drugs for tuberculosis. Describe and discuss all anti-tuberculosis drug
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regimens recommended by RNTCP (2016).

Q3. Brief Answer Questions 4 x 3 = 12

- a. Write the advantages of Atypical Antipsychotics over Typical Antipsychotics.
- b. Explain the pharmacological actions and therapeutic actions of aspirin at its different doses.
- c. Explain the differences in the mechanisms of action between combined oral contraceptives (COCs) and progestin-only contraceptives (POCs) in detail, including their effects on ovulation, cervical mucus, and endometrium.
- d. Enumerate contraindications of corticosteroids. Discuss the adverse effects associated with long-term glucocorticoid therapy and strategies to minimize these effects.

Q4. Short Answer Questions 10 x 1 = 10

- a. Name Two Antipseudomonal Penicillins.
- b. Name Two drugs of different classes used in Open Angle Glaucoma.
- c. Write Two Contraindications of Morphine.
- d. Enumerate drugs used in treatment of Thyroid Storm.
- e. Name two drugs used as Local Anaesthetics.
- f. Enumerate pre-anaesthetic medications with their role.
- g. Explain the mechanisms of bacterial resistance to beta-lactam antibiotics.
- h. Enumerate the adverse effects and contraindications of lignocaine and adrenaline combination.

i. Enumerate shared toxicity of aminoglycoside antimicrobials.

j. Enumerate the advantages of combining levodopa and carbidopa.

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