

PAPER CODE: MB2019111

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MBBS SECOND YEAR DEGREE EXAMINATIONS: AUGUST 2025

PHARMACOLOGY PAPER-I

Time: 3 Hours

Max Marks: 100

Note: Answer all questions Give Diagrammatic representation where ever necessary

Multiple Choice Questions: 10 X 1 = 10

1. Drug administered through the following route is most likely to be subjected to first-pass metabolism:
 - a) Oral
 - b) Sublingual
 - c) Subcutaneous
 - d) Rectal
 2. Orphan drugs are
 - a) drugs with high therapeutic failure
 - b) drugs for rare disease
 - c) drugs having low therapeutic margin
 - d) drugs with high toxicity
 3. Low doses of aspirin prolong bleeding time by selectively inhibiting synthesis of the following mediator in the platelets:
 - a) Thromboxane A₂
 - b) 5-Hydroxytryptamine₃
 - c) Platelet activating factor₄
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d) Prostacyclin

4. The most effective drug in parkinsonism is:

a) Bromocriptine

b) Selegiline

c) Levodopa

d) Biperiden

5. The following analgesic lacks anti-inflammatory action:

a) Paracetamol

b) Ibuprofen

c) Diclofenac sodium

d) Piroxicam

6. The drug which undergoes 'Hofmann' elimination is:

a) Succinylcholine

b) Pancuronium

c) Vecuronium

d) Atracurium

7. Fomepizole is used in which poisoning

a) methyl alcohol poisoning

b) morphine poisoning

c) strychnine poisoning

d) atropine poisoning

8. Atropine poisoning causes all except

a) Dilated pupil

b) Excessive salivation

c) Excitement

d) hot skin

9. Antidote for paracetamol poisoning is

a) Naloxone

b) Methylene blue

c) N-acetylcysteine

d) Flumazenil

10. The drug of choice for status epilepticus is

a) Lorazepam

b) Propofol

c) Thiopentone

d) Sodium valproate

Essay/ Long Answer Questions: 2 X 15 = 30

11.a) Enlist the different types of receptors with examples of drugs acting through them. (6+2)

b) Describe the factors modifying drug action and their clinical significance. (5+2)

12. Classify Antidepressants. Describe the mechanism of action, therapeutic uses and adverse effects of Tricyclic Antidepressants. (6+3+3+3)

Short Answer Questions: 7 X 6 = 42

13. Describe the advantages and disadvantages of Intravenous route of Drug administration.

14. Compare and contrast Succinylcholine and D-Tubocurarine.

15. Describe therapeutic uses and adverse effects of Alpha Blockers.

16. Classify Anticholinesterases and mention their therapeutic uses.

17. Explain the mechanisms of action, therapeutic uses and adverse effects of proton Pump Inhibitors.
18. Describe disease modifying Anti Rheumatoid Drugs.
19. Describe how to counsel HIV/ AIDS patient to adhere to Anti-Retroviral Therapy.

Very Short Answer Questions: 6 X 3 = 18

20. Define Prodrug with two examples.
21. Enlist any two uses of Adrenaline with its rationale.
22. Mention the drugs used in the management of Organo Phosphorous Poisoning with its rationale.
23. Mention three different groups of drugs used in Bronchial Asthma with one example for each.
24. What is Malignant Hyperthermia? Mention the drug used for its treatment.
25. Define Tachyphylaxis. Give two examples of drugs causing Tachyphylaxis.
