

KATHMANDU UNIVERSITY
End Semester Examination
February, 2025

Marks Scored:

Level : B.Pharm.
Year : III

Course : PHAR 323
Semester : II

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date 09 FEB 2025

SECTION "A"

[10 Q. × 1 = 10 marks]

Choose and encircle the most appropriate option from each set of choices

- Effect of Levodopa can be greatly enhanced by co administration of following drugs except
a. Benserazide b. Selegiline c. Trihexyphenidyl d. Entacapone
- All of the following effects of Morphine are due to CNS depressant effects except
a. Analgesia b. Nausea and vomiting
c. Sedation d. Euphoria
- Select a drug class that would be the most appropriate treatment for a person with history of motion sickness
a. 5-HT₃ receptor antagonist b. H₁ antihistaminics
c. Dopamine receptor antagonist d. Prokinetic drugs
- All of the following statements of conventional neuroleptic drugs are true except
a. They mainly block D₂ receptor in limbic system
b. They inhibit the H₁ receptor
c. These drugs can produce extrapyramidal effects like Pseudoparkinson effects
d. These drugs doesn't develop tolerance to sedative effect.
- Adult dose of Bisacodyl suppositories is
a. 10mg/day b. 100-200mg/day c. 0.5mg/day d. 17gm/day
- Valproic acid can be used in treatment of
a. Myoclonic seizure b. Absence seizure
c. Tonic clonic seizure d. All of the above
- Laxative should be used in all of the following conditions except
a. As adjunct to antihelmintic medication b. Patient suffering from ulcerative colitis
c. In bed ridden patient d. For removal of ingested poisons
- Metoclopramide has the following actions except
a. Increase lower esophageal sphincter tone
b. Increase tone of pyloric sphincter
c. Increase gastric peristalsis
d. Increase intestinal peristalsis
- Ranitidine differs from Cimetidine in the following respect
a. It is less potent b. It is shorter acting
c. It does not have antiandrogenic action d. It produces more CNS side effects

10. The therapeutic effect of sulfasalazine in Ulcerative colitis is exerted by
- Inhibitory action of unabsorbed drug on the abnormal colonic flora
 - Breakdown of the drug in colon to release 5-aminosalicylic acid which suppresses inflammatory locally
 - Release of sulfapyridine having antibacterial property
 - Systemic immunomodulatory action of the drug
11. One of the following general anesthetics belong to inhalants.
- Thiopental
 - Desfluran
 - Ketamine
 - Propofol
12. Which of the following disease is caused by the deficiency of Niacin?
- Scurvy
 - Pernicious anemia
 - Rickets
 - Pellagra
13. Which of the following statement is **NOT** true about Tacrolimus?
- Topically used for eczema
 - Causes glucose intolerance
 - Indicated for the prophylaxis of organ transplant rejection
 - Can be safely administered with any nephrotoxic drugs
14. _____ is an example of killed viral vaccine.
- Polio
 - MMR
 - Pertussis
 - Rotavirus
15. Autoantibodies against _____ produced during the halothane metabolism leads to malignant hyperthermia:
- Trifluoroacetic acid
 - Demoxepam
 - Oxazepam
 - Flurazepam
16. Form of alcohol withdrawal symptoms leading to severe nervous system changes is called?
- Delirium tremens
 - Wernicke-Korsakoff syndrome
 - Dementia
 - ADHD
17. One of the following antiasthmatic drugs work by inhibiting the degranulation of mast cells
- Sodium Cromoglycate
 - Zafirlukast
 - Montelukast
 - Flunisolide
18. An anti-asthmatic drugs producing reduction in the level of inflammatory cytokines, reduced COX-2 expression with few systemic side effects is:
- Inhaled Ipratropium
 - Inhaled Fluticasone
 - Oral Terbutalin
 - Oral Prednisolone
19. _____ is a drug of choice in apnoea in premature infants.
- Doxapram
 - Amphetamine
 - Dextromethorphan
 - Picrotoxin
20. One of the following benzodiazepines has the shortest elimination half-life?
- Lorazepam
 - Diazepam
 - Triazolam
 - Alprazolol

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SECTION "B"

[5 Q. × 3 = 15 marks]

Attempt ANY FIVE questions.

1. List out the advantages and adverse effect of Dopamine agonist.
2. Write in detail about fluid replacement therapy for the management of diarrhea.
3. Elaborate on regulation of gastric acid secretion. State the different types of Antacids.
4. Explain the rationale of Disulfiram use in chronic alcoholism.
5. Elaborate briefly on the uses of nootropics for different cerebrovascular diseases.
6. Classify vitamins. List out the important functions of vitamin K in human body.
7. Write short notes on uses of pre-anesthetic medications before general anesthesia.

SECTION "C"

[5 Q. × 5 = 15 marks]

Attempt ANY FIVE questions.

8. Classify antidepressant drugs. Write down the mechanism of action, therapeutic uses and adverse effect of Tricyclic antidepressants.
9. Discuss in detail about the different pharmacological actions of Morphine.
10. Give a detailed account on adverse effects of neuroleptic drugs. How extrapyramidal symptoms related to neuroleptic drugs can be managed?
11. Elaborate on MOA and therapeutic uses and ADRs of cyclophosphamide as an immunosuppressant agent.
12. What are different types of cough? Elaborate on the MOA, ADRs of codeine and bromohexine.
13. Classify drugs used to treat bronchial asthma. Elaborate on the MOA of leukotriene antagonists and mast cell stabilizers with example for each.
14. Mention the difference between laxative and cathartics and indication for use of laxatives. Elaborate on mechanism of action and adverse effects of bulk laxative.

P.T.O.

SECTION "D"

[2 Q. × 7.5 = 15 marks]

Attempt ANY TWO questions.

15. Elaborate on different types of epilepsy. Explain in detail about the mechanism of action of antiepileptic drugs. State the pharmacokinetics and adverse effect of Phenytoin.
16. Classify general anesthetics. Explain in detail the pharmacokinetics and pharmacodynamics, therapeutic uses and ADRs of benzodiazepines with an appropriate example for each class.
17.
 - a. Discuss in detail about prokinetics including mechanism of action, uses and its effects on upper gastrointestinal tract. [3.75]
 - b. Elaborate on MOA and therapeutic uses and ADRs of cyclophosphamide as an immunosuppressant agent. [3.75]