REV-01
BPT/112/37/42

2025/12

SET B

BACHELOR OF PHYSIOTHERAPY
THIRD SEMESTER
PHARMACOLOGY
BPT – 305

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs. **Full Marks: 70**

Objective

Time: 30 min. **Marks: 20**

Choose the correct answer from the following: ***1×20=20***

1. Which of the following is not an advantage of IV route of Administration?
   a. Gives 100% Bioavailability
   b. Large volume and Irritants can be given
   c. Rapid dose adjustments can be given
   d. Self-administration is difficult

2. Which of the following is not an anticholinergic Drug?
   a. Atropine
   b. Cyclopentolate
   c. Tropicamide
   d. Pilocarpine

3. Actions of Sympathomimetic Drugs include:
   a. Increased Heart Rate
   b. Relaxation of Smooth Muscles
   c. Bronchodilatation
   d. All of the above

4. Amphetamine is a drug of abuse due to:
   a. Euphoria
   b. Improved Physical Performance
   c. Alertness
   d. All of the above

5. Action of Dopamine Include
   a. Vasodilatation
   b. Increased Heart Rate
   c. Vasoconstriction
   d. None of the above

6. Toxic Dose of Atropine causes the following:
   a. Restlessness
   b. Insomnia
   c. Delusion
   d. All of the above

7. Pharmacodynamics involves the study of following EXCEPT
   a. Biological and therapeutic effects of drugs
   b. Absorption and distribution of drugs
   c. Mechanisms of drug action
   d. Drug Interactions

8. Which of the following are Cholinergic Drugs?
   a. Pilocarpine
   b. Atropine
   c. Dopamine
   d. Ephedrine

9. Which division of autonomic nervous system is responsible for the "fight or flight" response?
   a. Sympathetic
   b. Parasympathetic
   c. Central
   d. Somatic

10. Routes of administration of Morphine include all except:
   a. Oral
   b. IV
   c. IM
   d. Inhalational

11. The parasympathetic Nervous system is most active during:
   a. Stressful Situation
   b. Rest and Digestion
   c. Physical Activity
   d. Fight Responses

12. Pick out the parenteral route of medicinal agent administration:
   a. Rectal
   b. Oral
   c. Sublingual
   d. Inhalation

13. Which of these are not a type of generalized seizures?
   a. Absence Seizures
   b. Myoclonic Seizures
   c. Simple partial Seizures
   d. Atonic Seizures

14. Benzodiazepines include all of these except
   a. Hypnotics
   b. Anti anxiety
   c. Barbiturates
   d. Anticonvulsants

15. Which route of drug administration is most likely to lead to the first-pass effect?
   a. Sub lingual
   b. Oral
   c. Intravenous
   d. Intramuscular

16. What is the main neurotransmitter released by parasympathetic nervous system?
   a. Dopamin
   b. Acetylcholine
   c. Nor epinephrine
   d. GABA

17. Increased heart rate and dilated pupils are associated with the activation of :
   a. Sympathetic Nervous System
   b. Parasympathetic Nervous system
   c. Both of them
   d. None of them

18. What does the term "bioavailability" mean?
   a. Plasma protein binding degree of substance
   b. Permeability through the brain-blood barrier
   c. Fraction of an uncharged drug reaching the systemic circulation following any route administration
   d. Amount of a substance in urine relative to the initial dose

19. The action of Cholinergic receptors on cardiovascular system is
   a. Increased heart rate
   b. Decreased heart rate
   c. Increased blood pressure
   d. No effect on heart rate

20. Pharmacokinetics is:
    a. The study of biological and therapeutic effects of drugs
    b. The study of absorption, distribution, metabolism and excretion of drug
    c. The study of mechanisms of drug action
    d. The study of methods of new drug development

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Descriptive

Time: 2 hrs 30 min **Marks: 50**

[Answer question no.1 & any four (4) from the rest]

1. Explain the drugs used in treatment of Parkinsonism **10**

2. Drugs used for Cough management **10**

3. Explain Routes of Drug Administration **10**

4. Explain First Pass Metabolism. Also explain in detail about Transdermal Route of Drug Administration **5+5=10**

5. Explain the factors responsible for rate of Drug Absorption **10**

6. Explain the Sources of Drugs. Also explain Opiod analgesics briefly **7+3=10**

7. Explain the metabolism, Biotransformation and Excretion of Drugs **10**

8. Explain the drugs used in the management shock **10**

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