REV-01
BMLT/73/36/41

2025/05

SET B

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY
FOURTH SEMESTER
PHARMACOLOGY
BMLT – 401

[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. Indicate the drug, which has greater potency of the local anesthetic action:
   a. Lidocaine
   b. Bupivacaine
   c. Procaine
   d. Mepivacaine

2. Which of the following local anesthetics is an acetanilide derivative?
   a. Tetracaine
   b. Lidocaine
   c. Cocaine
   d. Procaine

3. Addiction is associated with the existence of:
   a. Psychological dependence
   b. Physiological dependence
   c. Tolerance
   d. All of the above

4. Pick out the drug belonging to anticoagulants of direct action:
   a. Aspirin
   b. Dicumarol
   c. Heparin
   d. Phenprocoumon

5. General principles of anti-infective therapy are:
   a. Clinical judgment of microbiological factors
   b. Definitive identification of a bacterial infection and the microorganism's susceptibility
   c. Optimal route of administration, dose, dosing frequency and duration of treatment
   d. All of the above

6. Antibiotic inhibiting bacterial RNA synthesis is:
   a. Erythromycin
   b. Chloramphenicol
   c. Rifampin
   d. None of the above

7. Which of the following chemical agents are used in the treatment of insomnia?
   a. Benzodiazepines
   b. Imidazopyridines
   c. Barbiturates
   d. All of the above

8. Father of Modern chemotherapy was:
   a. Pasteur
   b. Paul Ehrlich
   c. Joubert
   d. Koch

9. Broad -spectrum antibiotics are:
   a. Penicillin
   b. Tetracycline
   c. Both of the above
   d. None of the above

10. The state of "general anesthesia" usually includes:
   a. Analgesia
   b. Loss of consciousness, inhibition of sensory and autonomic reflexes
   c. Amnesia
   d. All of the above

11. Adverse effects of caffeine include all of the following EXCEPT:
   a. Arrhythmias
   b. Insomnia
   c. Hypotension
   d. Psychomotor excitation

12. Acyclovir is an
   a. Anti influenza agent
   b. Anti hepatitis agent
   c. Antiherpes virus agents
   d. None of the above

13. Adverse effect caused by phenobarbital is
   a. Physical and psychological dependence
   b. Exacerbated petit mal epilepsy
   c. Sedation
   d. All of the above

14. Minimal duration of antibacterial treatment usually is:
   a. Not less than 5 days
   b. Not less than 1 day
   c. Not less than 10-14 days
   d. Not less than 3 weeks

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

16. Penicillium notatum is a:
   a. Virous
   b. Bacteria
   c. Fungus
   d. None of the above

17. Alcohol may cause:
   a. CNS depression
   b. Vasodilatation
   c. Hypoglycemia
   d. All of the above

18. Target proteins which a drug molecule bind is:
   a. Only receptors
   b. Only ion channels
   c. Only carriers
   d. All of the above

19. The ..... Samhita includes reference to drugs of animals, plants and mineral origin used until the first century AD.
   a. Charaka
   b. Ebers
   c. Hippocrates
   d. Shushruta

20. Who is the father of medicine.....
   a. Ebers
   b. Hippocrates
   c. Egyptian
   d. Pontus

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Descriptive

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

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

1. Discuss briefly different routes of drug administration? **10**

2. Enlist sexually transmitted diseases, Give the pharmacology of drugs used for HIV. **10**

3. Define antibiotics. Write the difference between narrow spectrum andbroad-spectrum antibiotics with examples. Explain briefly mechanism ofaction of penicillin. **10**

4. What is chemotherapy? Give the classification of antimicrobials on basis of mechanism of action. **10**

5. What is drug dependence? Types of drug dependence. Give examples **10**

6. Write briefly about Mechanism of action of penicillin on human body. **10**

7. Define UTI? Explain in detail drug used in UTI Infection? **10**

8. Define & classify Antifungal Agents with example **10**

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