

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**

**B. Pharm. Summer 2022-2023 Examination**

**Semester: 6****Subject Code: BP602T****Subject Name: Pharmacology-III****Date: 13/04/2023****Time: 10:00am to 1:00pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)****(20)**

1. Antitussives act by:
  - a) Liquifying bronchial secretions
  - b) Raising the threshold of cough center
  - c) Reducing cough inducing impulses from the lungs
  - d) Both 'B' and 'C' are correct
2. Bronchodilators are useful in cough:
  - a) Only when cough is nonproductive
  - b) Only when cough is associated with thick sticky secretions
  - c) Only when reflex bronchoconstriction is associated
  - d) Irrespective of nature of cough or associated features
3. 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
4. Choose the drug which blocks basal as well as stimulated gastric acid secretion without affecting cholinergic, histaminergic or gastrin receptors:
  - a) Famotidine
  - b) Loxatidine
  - c) Omeprazole
  - d) Pirenzepine
5. Montelukast produces the following action(s) in bronchial asthma patients
  - a) Bronchodilatation
  - b) Suppression of bronchial hyperreactivity
  - c) Stabilization of mast cells
  - d) Both 'A' and 'B'
6. Which antimicrobial should be avoided in patients of liver disease:
  - a) Tetracycline
  - b) Cotrimoxazole
  - c) Cephalexin
  - d) Ethambutol
7. Indicate the enzyme(s) inhibited by amoxicillin:
  - a) Topoisomerase II
  - b) Topoisomerase IV
  - c) Transpeptidase
  - d)  $\beta$  lactamase
8. The beta lactam antibiotics include the following:
  - a) Cephalosporins
  - b) Monobactams
  - c) Carbapenems
  - d) All of the above
9. Select the 3rd generation cephalosporin that can be used only by parenteral route:
  - a) Cefpodoxime proxetil
  - b) Ceftibuten
  - c) Ceftizoxime
  - d) Cefixime
10. Which class of drugs has grey baby syndrome as an adverse effect?
  - a) Chloramphenicol
  - b) tetracycline
  - c) penicillin
  - d) aminoglycosides
11. The polyene antibiotics act by:
  - a) Inhibiting fungal cytochrome P450 enzyme
  - b) Binding to ergosterol and creating micropores in fungal cell membrane
  - c) Inhibiting fungal DNA synthesis
  - d) Disorienting microtubules in fungal cells
12. Which of the following drugs is suitable for treatment of malaria during pregnancy:
  - a) Quinine
  - b) Chloroquine
  - c) Pyrimethamine
  - d) Primaquine

13. Multidrug resistant (MDR) tuberculosis is defined as resistance to:
- Any two or more antitubercular drugs
  - Isoniazid + any other antitubercular drug
  - Isoniazid + Rifampin + any one or more antitubercular drugs
  - All five first line antitubercular drugs
14. Drugs effective in filariasis include:
- Ivermectin
  - Albendazole
  - Diethyl carbamazine citrate
  - All of the above
15. Which antileprotic drug suppresses lepra reaction and reversal reaction as well:
- Dapsone
  - Rifampin
  - Clofazimine
  - Minocycline
16. Alkylating agents exert cytotoxic action by inducing:
- Breakage of DNA strand
  - Cross linking of DNA strands
  - Abnormal pairing of purine and pyrimidine bases
  - All of the above
17. Vinca alkaloids exert antitumor activity by:
- Activating topoisomerase II to cause breaks in DNA strands
  - Crosslinking DNA strands
  - Inhibiting DNA mediated RNA synthesis
  - Inhibiting polymerization of tubulin to form intracellular microtubules
18. Anticancer drugs weaken host defence by:
- Damaging respiratory and gut epithelia
  - Inducing granulocytopenia
  - Altering resident microbial flora
  - Both 'A' and 'B' are correct
19. Any chemical, substance, or exposure given to the pregnant mother that may cause birth defects to the developing foetus is called as \_\_\_\_\_.
- genotoxic agent
  - teratogen
  - mutagen
  - carcinogen
20. LD50 can be defined as \_\_\_\_\_
- the dose which has proved to be causing death to 50% of the tested group of animals
  - the dose which has proved to be effective at 50% of its plasma concentration.
  - the dose which has proved to be having insufficient amount of activity at 50% of its plasma concentration
  - All of the above

**Q.2 Long Answers (any 2 out of 3) (10 Mark Each)**

**(20)**

- Classify the drugs for peptic ulcer and write a note on H<sub>2</sub> antagonists.
- Write a detail note on Immunosuppressant drugs.
- Classify anticancer agents. Write a note on antimetabolites.

**Q.3 Short Answers (any 7 out of 9) (5 Mark Each)**

**(35)**

- Write a note on anti-emetic agents.
- Classify anti-asthmatic agents and write in detail about  $\beta$  2 agonist.
- Write the mechanism of action, adverse effects and therapeutics uses of penicillin
- Define antibiotics. Classify anti-microbial agents based on their mechanism of action
- Write a note on life cycle of malarial parasite in human with diagram.
- Classify Anti-tubercular agents and write short note on DOTS therapy.
- Describe in brief about general principles for treatment of poisoning
- Write a detailed note on chrono pharmacology.
- Discuss the Pharmacology of aminoglycosides.