



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme - D.Pharm-2022 Course Name - Pharmacology - Theory Course Code - ER20-21T (Year II)

Library Pharmaceutical Technology Brainware University Barasat, Kolkata-700125

Full Marks: 80

[The figure in the margin indicates full marks. Candidates are required to give their answers in their Time: 3:0 Hours own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

Choose the correct alternative from the following:

- (i) Select the correct answer: General anesthetic is useful because it causes
 - a) Excellent analgesia

- b) Unconsciousness
- c) Muscle relaxation and unconsciousness
- d) Abolition of reflexes
- (ii) Select the correct clinical use of codeine.
 - a) Analgesic.

b) Antitussive.

c) Anti-diarrhoeal.

- d) All of these.
- (iii) Predict which of the following is a stool softener.
 - a) Castor oil.

b) Docusate sodium.

c) Cascara Sagrada.

- d) Phenolphthalein.
- (iv) What kind of drugs can't penetrate membranes by passive diffusion?
 - a) Lipid-soluble.

- b) Non-ionized substances.
- c) Hydrophilic substances.
- d) Interaction of substances
- (v) Predict which of the following is not an adsorbent.
 - a) Kaolin.

- b) Pectin.
- c) Activated charcoal. (vi) Predict when bronchodilators are used.
- d) Paracetamol.
- - a) Only when cough is non productive.
- 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.
- (vii) Choose the fastest acting inhaled bronchodilator.
 - a) Salbutamol.

b) Adrenaline.

c) Atropine.

- d) Salmeterol.
- (viii) Select the correct use of diphenhydramine.
 - a) Opioid type antitussive.
 - c) Antihistamine type antitussive.
- b) Non-opioid type antitussive.
- d) None of these.

(ix) Which medication is commonly used to preve	ent and treat venous thromboembolism
and pulmonary embolism?	b) Apixaban.
a) Clopidogrel.	d) Nitroglycerin.
c) Enoxaparin.(x) Predict the drug of choice for acute renal fail	- Feb 2 (E.D)
170.0	b) Prazosin.
a) Furosemide.	d) Methyldopa.
 c) Verapamil. (xi) Choose the correct adverse effect of H1-anta 	agonistic drugs.
	b) Teratogenic effect.
a) Blocking of gastric secretions.	d) Flushing.
 c) Nausea. (xii) Choose the correct formula of apparent volume 	me of distribution.
a) Amount of drug in the body/Plasma drug	b) Amount of drug in the plasma/ rasma areas
concentration	concentration
c) Amount of drug in the urine/Plasma drug concentration	d) Amount of drug in the tissue/Plasma drug concentration
(xiii) Choose the correct adverse effect of methyl	ldopa.
	b) Tachycardia.
a) Lethargy.	d) Nasal Stiffness.
c) Nightmare.	
(xiv) Choose the primary mechanism of action of	b) Blockade of sodium-potassium-chloride
a) Inhibition of carbonic anhydrase	cotransporter
	d) Inhibition of vasopressin
c) Inhibition of aldosterone	a) Infinition of vasopressin
(xv) Select the active thyroid hormone.	8 4
a) T3	b) T4
c) TSH	d) All of these
(xvi) Select the correct option: Streptomycin is	
a) A kanamycin antibiotics	b) A β –lactam antibiotic
	d) An amino- glycoside antibiotic
c) A macrolide antibiotic (xvii) Which of the following drugs is a common procedures and dental work?	ly used topical anesthetic for minor surgical
a) Morphine	b) Lidocaine
	d) Propranolol
c) Aspirin (xviii) Which of the following drugs is commonly	used to treat neuropathic pain?
	b) Ibuprofen
a) Acetaminophen	d) Morphine
c) Gabapentin (xix) Which of the following drugs is a skeletal term relief of muscle spasms?	muscle relaxant commonly used for short-
	b) Diazepam
a) Baclofen c) Methocarbamol	d) Cyclobenzaprine
(xx) Identify the correct physiological role of p	parathormone.
	b) Mood regulation
a) Bone resorption	d) None of these
c) Coordination	3,1333
	Group-B 3 x 10=30
(Short Answ	ver Type Questions/
(Answer any	ien jioni die jone
2. Define biograilability and bioequivalence.	(3)
2. Define bloavallability and bloed wateries.	(3)
Explain the properties of an ideal anadea. Write a short note on open angle glaucoma.	a. (3)
4. Write a short hote on open angle grades	TO LET THE STATE OF THE STATE O
5. Illustrate the pharmacelogical and	(3)
(Answer any	Ten from the following) () () () () () () () () () () () () ()

7. Classify antibiotics with suitable examples. (3))
8. Define the term: sedatives and hypnotics. (3)
9. What is the classification of antiarrhythmic drugs? (3)
10. Write the adverse effects of potassium-sparing diuretics and carbonic anhydrase inhibitors. (3)
11. Classify sedatives drugs with suitable examples. (3)
OR	
Illustrate the physiological role of serotonin. (3)
Group-C	
(Long Answer Type Questions) 5 x 6	=30
(Answer any Six from the following)	
12. Describe the basic principles of chemotherapy. (5)
13. Explain the mechanism of action of general anesthetics. (5)
14. Classify the chemotherapeutic agents on the basis of mechanism of action. (5)
15. Classify sulphonamides with examples. (5)
16. Illustrate the mechanism of action of the various classes of bronchodilators. (5)
17. Explain the mechanism of action of diuretics for the treatment of hypertension. (5)
OR	
Illustrate the mechanism of action of the various classes of laxatives. (5)

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