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Pharmaceutical Technology
Brainware University
Barasat, Kolkata 700°25

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Pharm-2020/B.Pharm-2021/B.Pharm-2022

Course Name – Pharmacology II

Course Code - BP503T

(Semester V)

Full Marks: 75 Time: 3:0 Hours

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

Group-A

(Multiple Choice Type Question)

1 x 20=20

- 1. Choose the correct alternative from the following :
 - (i) Chocse correct option, pernicious anemia is developed due to deficiency of

 a) Erythropoetin
 b) Vitamin B12
 c) Iron
 d) Vitamin B6
- (ii) Select which receptor histamine affects to stimulate gastric acid secretion.
 - a) H1

b) H2

c) H3

- d) H4
- (iii) Select the drug which increase digoxin plasma concentration by a pharmacokinetic mechanism.
 - a) Captopril

b) Hydrochorothiazide

c) Lidocaine

- d) Quinidine
- (iv) Select the drug which increase digoxin plasma concentration by a pharmacokinetic mechanism.
 - a) Captopril

b) Hydrochorothiazide

c) Lidocaine

- d) Quinidine
- (v) Identify the characteristic property of autacoid.
 - a) They are produced by specific endocrine glands
- b) They act at distant target cells via the bloodstream
- c) They have prolonged effects compared to hormones
- d) They are produced locally and act on nearby tissues
- (vi) Select the option not representing an autacoid.
 - a) Histamine

b) Bradykinin

c) Serotonin

d) Oxytocin

(VII)	acid Histidine.	synthesis of histamine from the animo	
gr sen	a) Oxidative deamination and decarboxylation Decarboxylation of histidine and methylation of histamine	deamination of histamine	
(viii)	Identify the enzyme responsible for the synthesis	s of Leukotrienes from Arachidonic acid.	
(ix)	a) Cyclooxygenase (COX) c) Hydrolase Choose the type of receptors by which Bradykini	b) Lipoxygenase (LOX) d) Phospholipase A n exerts its effects.	
(x)	a) G protein-coupled receptors c) Ligand-gated ion channels Identify the primary active form responsible for A	b) Tyrosine kinase receptors d) Nuclear receptors Aspirin's pharmacological effects.	
(xi)	a) Acetylsalicylic acid c) Salicylic acid Identify the hormone responsible for triggering of production of sex hormones in both males and fermions.		
(xii)	a) Prolactin (PRL) c) Luteinizing Hormone (LH) Select the single releasing factor involved in the	b) Growth Hormone (GH) d) Adrenocorticotropic Hormone (ACTH) regulation of FSH and LH secretion.	
(xiii)	a) Estrogen c) Testosterone Choose the endocrine disorder occurred due to e	 b) Progesterone d) Gonadotropin-Releasing Hormone (GnRexcess production of ACTH. 	tH)
(xiv)	a) Cushing's syndrome c) Precocious puberty Choose the enzyme primarily targeted by thioam hormone.	b) Hypothyroidism d) Acromegaly lides to inhibit the synthesis of thyroid	82
	a) Thyroglobulinase c) Thyroid kinase Choose the active form of vitamin D responsible intestines.	b) Thyroid peroxidase d) Thyroxine deiodinase for enhancing calcium absorption in the	Uprany armaceetical Technology Brainways University
	a) Vitamin D2 c) Vitamin D3 Choose the hormone promotes bone resorption, the bloodstream.	b) Calcitriol d) Vitamin D5 releasing calcium and phosphate into	Library irmaceencal 1 Brainwese Un
(xvii)	a) Insulin c) Parathyroid hormone Identify the main forms of Vitamin D.	b) Calcitonin d) Estrogen	Phar
	a] Vitamin D1 and D2	b) Vitamin D2 (ergocalciferol) and vitamin (cholecalciferol)	D3
(xviii	c] Vitamin D3 and vitamin D4) Select the form of vitamin D synthesized in the sl	d) Vitamin <mark>D5 and</mark> vitamin <mark>D6</mark> kin upon exposure to UV radiation.	
	a] Vitamin D1 c] Vitamin D3 Identify the major circulating form of vitamin D, istatus.	b) Vitamin D2 d) Vitamin D4 used as a marker to assess vitamin D	
	a] Vitamin D1 c] Vitamin D3 Select the condition caused by Vitamin D deficier	b) Vitamin D2 d) Calcidiol (25-OH D) ncy.	

- a) Hypocalcemia and osteoporosis c) Hypocalcemia and rickets/osteomalacia
- b) Hypercalcemia and osteoporosis
- d) Hypercalcemia and rickets/osteomalacia

Group-R

Group-B				
(Short Answer Type Questions)	5 x 7=35			
2. Write about different drugs affecting 5-HT system.	(5)			
3. Explain the physiological action of leukotrienes.	(5)			
4. Explain the actions of bradykinin.	(5)			
5. Describe the plasma volume expander.	(5)			
6. Define and classify diuretics with suitable examples.	(5)			
7. Illustrate the uterine relaxants.	(5)			
OR				
Explain about oral contraceptives.	(5)			
8. Illustrate the mechanism of action of acetazolamide.	(5)			
OR				
Illustrate the mechanism of action of spironolactone.	(5)			
Group-C				
(Long Answer Type Questions)	10 x 2=20			
 Describe the mechanism of action , pharmacokinetics , adverse effects and use of acetazolamide. 	(10)			
10. Illustrate the bioassay of ACTH.	(10)			
OR	*			
Explain the bioassay of oxytocin.	(10)			

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