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Enrollment No.....



Faculty of Pharmacy
End Sem (Odd) Examination Dec-2022
PY3CO20 Pharmacology -II

Programme: B. Pharm

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated.

- Q.1
- A condition in which the blood pressure of systemic artery increases beyond the normal pressure as known _____. **2**
 - What is Angiotension converting enzyme? **2**
 - Give any two examples of plasma volume expanders. **2**
 - Define hematinics. **2**
 - Full form of 5-HT. **2**
 - Give any two examples of NSAIDS. **2**
 - Give any two examples of hormones secreted from anterior pituitary gland. **2**
 - Give any two examples of oral hypoglycemic agents. **2**
 - Define oral contraceptives. **2**
 - What is bioassay? **2**
- Q.2
- Attempt any two:
- What is congestive heart failure. Explain classification of CHF and mechanism of action of beta blockers. **10**
 - Define diuretics. Explain mechanism of action of loop diuretics and thiazide diuretics. **10**
 - Explain mechanism of action of calcium channel blockers and angiotensin converting enzyme inhibitors with examples of drugs. **5**
 - Explain coagulants and anticoagulants with their uses and examples. **5**

- Q.3
- Attempt any seven: Two questions from each section is compulsory.

Section - A

- Define autocoids. Explain classification of autocoids. **5**
- Explain 5-hydroxy tryptamine with its classification. **5**
- Write a note on Prostaglandins, Thromboxanes and Leukotrienes. **5**

Section - B

- Explain the role of parathormone and calcitonin. **5**
- Describe classification of oral hypoglycemic agents. **5**
- Explain mechanism of action of sulphonylureas and biguanides. **5**

Section - C

- Discuss oral contraceptives with their uses and examples. **5**
- Describe types of bioassay in details. **5**
- Explain bioassay of insulin. **5**

P.T.O.

Scheme of Marking



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Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	✓	A condition in which the blood pressure of systemic artery increases beyond the normal pressure as known..... 2 marks for fill in the blank. <i>Asteria hypertension</i>	2
	✓	What is Angiotension converting enzyme? Definition -2 marks	2
	✓	Give example of plasma volume expanders. Two drugs name each of 1 mark	2
	✓	Define hematinics. Definition 1.5 marks one example of 0.5 marks	2
	✓	Full form of 5-HT. Correct full form 2 marks	2
	✓	Give two examples of NSAIDS. Each drug of 1 mark	2
	✓	Give examples of hormones secreted from anterior pituitary gland. Two hormone each of 1 mark	2
	✓	Give some examples of oral hypoglycemic agents? Two agents each of 1 mark	2
	✓	Define oral contraceptives. Definition 1.5 marks one example of 0.5 marks	2
	✓	What is bioassay? Definition of 2 marks	2
Q.2		Attempt any two:	
	✓	i. What is congestive heart failure. Explain classification of CHF and mechanism of action of beta blockers. Definition -2 marks, Classification- 5 marks, MOA- 4 marks <i>(β-Blocker)</i>	10

	✓	ii. Define diuretics. Explain mechanism of action of loop diuretics and thiazide diuretics. Definition - 3 marks, each MOA - 3.5 marks <i>(Loop diuretics)</i> <i>MOA - 3.5 marks (Thiazide)</i>	10
	✓	iii. (a) Explain mechanism of action of calcium channel blockers and angiotensin converting enzyme inhibitors with examples of drugs. MOA with examples of each category - 2.5 marks <i>(CCB) same for ACE inhi</i>	5
	✓	(b) Explain coagulants and anticoagulants with their uses and examples. Explanation with uses and example - 2.5 marks each	5
Q.3		Attempt any seven: Two questions from each section is compulsory.	
		Section - A	
	✓	i. Define autocoids. Explain classification of autocoids. Definition-2 marks, classification - 3 marks	5
	✓	ii. Explain 5-hydroxy tryptamine with its classification. Explanation -2 marks, classification - 3 marks	5
	✓	iii. Write a note on Prostaglandins, Thromboxanes and Leukotrienes. Note on Prostaglandin - 2 marks, note on thromboxane and leucotrienes-3 marks	5
		Section - B	
	✓	iv. Explain the role of Parathormone and Calcitonin. Role of each contains - 2.5 marks	5
	✓	v. Describe classification of oral hypoglycemic agents. Full classification -5 marks	5
	✓	vi. Explain mechanism of action of sulphonylureas and biguanides. MOA of each category - 2.5 marks <i>← same</i>	5
		Section - C	
	✓	vii. Discuss oral contraceptives with their uses and examples. Discussion - 2 marks, uses-2 marks, examples - 1 mark	5
	✓	viii. Describe types of bioassay in details. <i>Types:</i> Description- 5marks <i>(procedure, principle, models)</i>	5
	✓	ix. Explain bioassay of insulin. <i>(procedure, principle, model)</i> Explanation full - 5 marks <i>one</i>	5
