

Total No. of Questions: 3

Total No. of Printed Pages: 2

Enrollment No.....



Faculty of Pharmacy

End Sem Examination May-2024

PY3CO05 Human Anatomy & Physiology -II

Programme: B. Pharm.

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1
- What is reflex arc? **2**
 - Define neurons with parts of neurons. **2**
 - Enlist two glands that secrete digestive juice into the alimentary canal. **2**
 - Describe the role of enzymes in digestion with an example. **2**
 - Define three types of respiration. **2**
 - Explain re-absorption process in nephron. **2**
 - Discuss about releasing of oxytocin. **2**
 - Give a brief detail about pineal gland. **2**
 - What is spermatogenesis? **2**
 - Write about chromosomes. **2**

- Q.2 Attempt any two:
- Elaborate structure and functions of central nervous system. **10**
 - Explain the digestive system along with digestion and absorption of nutrients. **10**
 - (a) Write a detail on classification and properties of nerve fibre. **5**
(b) Discuss about formation and role of ATP. **5**

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

Section - A

- Draw a labeled diagram and explain the respiratory system. **5**
- Explain re-absorption process with labeled diagram of nephron along with the physiology of urine formation. **5**

- Explain micturition reflex and role of kidneys in acid base balance respect of urinary system. **5**

Section - B

- Enlist the hormones secreted by pancreas, explain the function and mechanism of action of hormones. **5**
- What is considered "master gland" of the endocrine system and how it functions as master gland? **5**
- Write about adrenal gland & thymus and their disorders with labeled diagram. **5**

Section - C

- Elaborate the gonads and releasing hormones with functions. **5**
- Draw a labeled diagram of female reproductive system and explain physiology of menstruation. **5**
- Describe the genetic pattern of inheritance along with their modes. **5**

Marking Scheme

Human Anatomy & Physiology -II (T) - PY3CO05 (T)

Q.1	i)	reflex arc- definition	2Marks	2
	ii)	neurons	1 Marks	2
		parts of neurons	1 Marks	
	iii)	Two glands – name	2 Marks	2
	iv)	role of enzymes -1 Marks ,example.-	1 Marks	2
	v)	Definition -1 Marks ,three types of respiration-	1 Marks	2
	vi)	re-absorption process in nephron-	2 Marks	2
	vii)	releasing of oxytocin-	2 Marks	2
	viii)	Detail about pineal gland-	2 Marks	2
	ix)	Spermatogenesis -	2 Marks	2
	x)	Chromosomes- definition-	2 Marks	2

Q.2		Attempt any two:		
	i.	Defination-1, diagram-2,details of parts-4 and Functions of central nervous system-3		10
	ii.	digestive system- definition-1,diagram-2,details of parts -4 digestion and absorption of nutrients-3		10
	iii.	(a) Nerve fibre-definition-1, classification -3, properties-1		5
		(b) ATP -definition-1,formation-3 , role of ATP-1		5

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

Section - A

i.	Respiratory system-labeled diagram -2, explanation - 3	5
ii.	Re-absorption process with labeled diagram 3- physiology of urine formation-2	5
iii.	micturition reflex-3,role of kidneys in acid base balance respect of urinary system-2	5

Section - B

iv.	Pancreas- 1, hormones secreted by pancreas-1,explain the function-2 ,mechanism of action of hormones-1	5
v.	master gland- definition-1,location and releasing hormones- 1 functions as master gland -3	5
vi.	Definition each (adrenal gland-1 pineal gland-1 thymus gland- 1) ,Disorders-2	5
	Section - C	
vii.	Gonads- definition-1,releasing hormones -2,functions-2	5
viii.	female reproductive system-Definition-1,labeled diagram-1 physiology of menstruation-3	5
ix.	Genes-defiination-1, types-1, genetic pattern of inheritance-3	5
