#### PHYSIOLOGY: CONTROLLING & COORDINATING SYSTEM

# CC-6

#### UNIT-I

Fill in the blanks	
1.	tissue forms the coverings or outer cover of organs.
2.	Epithelial tissues lack
3.	Exchange of substances between epithelium and connective tissue occurs by
	process.
4.	are the modified columnar epithelial cells.
5.	Salivary and pancreas are glands.
6.	is an example of apocrine secretion.
7.	Sebaceous gland of skin is a gland.
8.	connective tissue is avascular.
9.	is the mother of all connective tissues.
10.	tissue stores fat.
11.	The cells of matured cartilage is called
12.	Cartilage is covered by
13.	Anti-angiogenesis factors is secreted by
14.	The mature bone cells are called
15.	form the bone matrix.
Answer	the followings. 1.5/2.5marks
1.	Define tissue. Write its importance.
2.	Classify tissues.
3.	Write the characters of epithelial tissue.
4.	Write the functions of epithelial tissues.
5.	Classify epithelial tissue basing on arrangement of cell layers.
6.	Write the characters, location of simple squamous epithelium.
7.	Describe the characters of non-ciliated epithelial cells with its functions.
8.	What are merocrine glands?
9.	Write the types of exocrine secretions.
10.	Write the characters of connective tissues.
11.	Write the physiological importance of adipose tissue.
12.	Differentiate tendons from ligaments.
Long answer questions. 6 marks	
1	Define tissue. Write the types, structure and location of different epithelial tissues.
т.	Define dissue. Write the types, structure and location of different epithelial dissues.

- 2. Write the structure and types of bones and cartilages.
- 3. Describe different types of connective tissues.

### UNIT-II

## Muscle & Nervous system

Fill in t	he blanks	1 marks
1.	Neurons are nourished by	
2.		
3.	Gaps in myelin sheath are termed as	
4.	The anterior segment of eye is filled by	_<_
5.	Vertebrate lens proteins are	, (N
6.	The middle layer of eye ball is	
7.	Bright light vision is mediated by	
8.	Number of bones in the middle ear is	
9.	is named as labyrinth.	
10	. Eustachian tube connects to	7,
Answe	r the followings.	1.5/2.5marks
1.	Draw skeletal muscle sarcomere.	
2.	Draw a myelinated neuron.	
3.	What is resting membrane potential?	
4.	· · · · · · · · · · · · · · · · · · ·	
5.		
6.	What is reflex action?	
7.	Draw a reflex path.	
	Write the parts of a neuron.	
9.		
Long a	nswer questions.	6 marks
1.	Write the molecular and chemical basis of muscle contraction.	
2.		
3.		
4.		
5.	Write the physiology of vision.	
	LINIT III	
	UNIT-III	
	Reproductive system	
Fill in t	he blanks	1 marks
1.	holds the testis in its position.	
2.	separates scrotum into two lateral partitions externally.	
3.	Scrotal septum is composed of	
4.	The cells that carry out spermatogenesis are	
5.	forms the blood testes barrier.	
6.	Testosterone secreting cells are	

Answer the followings.

1.5/2.5marks

- 1. Define reproduction. Write different kinds of reproduction.
- 2. Write the functions of male reproductive system
- 3. Write the role of scrotum in male reproduction.
- 4. Write the structural components of a seminiferous tubule.
- 5. What is blood- testis barrier?

Long answer questions.

6 marks

- 1. Describe the physiology of male reproductive system.
- 2. Describe the physiology of female reproductive system
- 3. Describe the ovarian cycle (menstrual cycle).
- 4. Write the methods of contraception in males and females.

#### **UNIT-IV**

Fill in th	ne blanks 1 marks
1.	The chemicals secreted by endocrine glands are
2.	Hormones act on
3.	Catecholamines are synthesized by modifying amino acid
4.	Steroid hormones are derived from
5.	Serotonin and melatonin are derived from
6.	Hypothalamus is a gland.
7.	The stimulatory secretions of hypothalamus is called hormones.
8.	hormone from hypothalamus inhibits the release of growth hormone from
	the pituitary.
9.	Factors released from hypothalamus reach the pituitary gland via
10.	part of hypothalamus is concerned with sleep.
11.	Pituitary gland is located in
Answer	the followings. 1.5/2.5marks
1.	Define endocrine glands.

- 2. Differentiate the endocrine glands from exocrine glands.
- 3. Define hormones.
- 4. What are lipid soluble hormones?
- 5. How hypothalamus controls pituitary secretions?
- 6. Write the role of thyrotropin releasing hormone.
- 7. Why pituitary is called master gland?
- 8. What is the fate of hormones in the body?
- 9. Write the cause and important symptoms of goitre.
- 10. Differentiate hormones and enzymes.

Long answer questions.

6 marks

- 1. Describe the structure and function of pituitary/ thyroid/ pancreases/ adrenal gland.
- 2. Classify hormones. Write the mechanism of hormone action.