## Total No. of Printed Pages: 2

## SUBJECT CODE NO:- F-6219 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Sem-III)( Zoology)

## Examinations December/January-2022-23 Animal Physiology - I -522 Elective

[Time: 3:00 Hours] [Max.Marks:80]

"Please check whether you have got the right question paper."

N.B.

- i) Draw diagram wherever necessary.
- ii) Part A is compulsory carry 20 marks.
- iii) Part B Attempt five question 12 marks each.

## Part - A

Q.1 Attempt the following multiple choice question.

20

- 1. The nephridia of earthworm without nephrostomes are
  - a) Integumentary
  - b) Pharyngeal
  - c) Sepial
  - d) Both a & b
- 2. Bipinnaria larva is found in the development
  - a) Sea-lily
  - b) Star fish
  - c) Sea Cu Cumber
  - d) Sea Star
- 3. Madreporite is associated with
  - a) Haemal System
  - b) Digestive System
  - c) Ambulacral System
  - d) Reproductive System
- 4. Respiratory organs in freshwater mussel
  - a) Book lungs
  - b) Pulmonary sacs
  - c) Gills
  - d) Respiratory siphons
- 5. The mode of feeding in leech is
  - a) Herbivorous
  - b) Carnivorous
  - c) Omnivorous
  - d) Sanguivorous
- 6. Chromophil Cells in earthworm are concerned with the secretion of
  - a) Amylase
  - b) Protease
  - c) Lipase
  - d) Coccon

	7. The role of typhlosole in the intestine of earthworm is	
	a) To increase absorptive surface	
	b) To control flow of blood	
	c) To produce digestive enzymes	
	d) To kill bacteria	
	8. The mode of respiration in earthworm is	
	<ul><li>a) Cutaneous</li><li>b) Gills</li></ul>	
	c) Pulmonary	
	d) Sub Cutaneous	
	9. Anti Coagulant secreted by leech is	
	a) Heparin	
	b) Hirudin	
	c) Haematin	
	d) Hemoglobin	
	10. Cephalisation is a characteristic of	
	a) Echinoderms	
	b) Annelida	
	c) Mollusca d) Artropoda	20,
	Part B	
	Attempt any five question.	
Q.2	Explain structure and function of heart in Crustacea	12
Q.3	What are respiratory organs in insects.	12
Q.4	Give in detail the mechanism of reception in insects.	12
Q.5	Explain types of reproduction in Annelida with development.	12
Q.6	What is Coelomic fluids and Coelomocytes in Echinodermata.	12
Q.7	Explain osmotic and ionic regulation in Mollusca.	12
Q.8	Which factors influencing in reproduction in Echinodermata.	12