entra

Note:		To	otal Marks: 100
1. Figure	es at right indicates marks		
	. All questions are compulsory		
	diagrams wherever necessary	•	
Q1) Answer	the following		
A	. Fill in the blanks		05 marks
	1) In amoeba the food is capt	tured by the	
	a) pseudopodia b) lysosom	es c) gastroderm d) cytoplasm	
	2) convert the star	ch into glucose.	
	a) lipases b) glycerol c		
	3) The central nervous system	m of earthworm consists of	
	a) Segmental ganglion b)	Nerve net c) Nerve fiber d) Nerv	e ring and nerve
	cord		
	4) The forwings in cockroac		
	a) Patagium b) Setae c) Tegmina d) Cilia		
	5) Respiration in spider is th		
	a) Lungs b) Skin c) gills o	l) book lungs	
Е	3. True or False	0.	05 marks
	1) Response to Chemical sti	muli is known as Chemotropism.	
		carried out by the flame cells.	
	3) Earthworm breathes throu	igh skin.	
	4) Hydra has an incomplete	digestive system.	
	5) Human heart has 3 chamb	pers.	
	C. Match the column		05 marks
	1) Photoautotrophic	a) Metanephric	
	2) Irritability	b) Open circulation	
	3) Hydra	c) Euglena	
	4) Cockroach	d) Paramecium	
	<ol><li>Mammalian kidney</li></ol>	e) Nerve net	
			05 moules
	D. Answer in one word.	• 1	05 marks
	1) Name the excretory organ		
	2) Where are neurotransmitte		m for mutual
	benefit.	in association with other organis	III IOI IIIGGGI
		espiratory organs does cat fish ha	ave?
		n is observed in marine Sponges	
	TI TILLIAN OF TOPICAMONO		

Q2) Answer the following (Any 2)

1) Explain Ultrafiltration in man.

20 marks

- Classify animals based on the principle nitrogenous excretory products.
- 3) Describe in detail Ruminant stomach.
- 4) Describe the digestive system of Cockroach and add a note on T.S of gizzard.

## Q3) Answer the following (Any 2)

20 marks

- 1) Describe the structure and mechanism of air sacs in Pigeon.
- 2) In detail explain the physiology of respiration in man.
- 3) Explain various types of accessory respiratory organs in fishes.
- 4) Describe various types of circulating fluids present in animals.

## Q4) Answer the following

20 marks

- 1) Explain conduction of nerve impulse.
- 2) Classify and describe various types of fins in fishes.
- 3) Describe in detail asexual reproduction
- 4) Explain feedback mechanism of hormones regulation.

## Q5) Short note (Any 4)

20 marks

- 1) Synapse
- 2) Food vacuole in Amoeba
- 3) Tube feet in Star fish
- 4) Malphigian tubules in Hydra
- 5) Septal Nephridia
- 6) Labyrinthine organ in Anabas.
- 7) Gemmule formation
- 8) Flame cells