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SARDAR PATEL UNIVERSITY B.Sc. (I Semester) Examination 2016 11th April 2016 (Monday) 2.30 pm - 4.30 pm

US01CBIO 01(BIOLOGY)

(INVERTEBRATA, HEMICHORDATA AND APPLIED ZOOLOGY)

NOTE: 1. Answers of all the questions (including MCQ) Should be written in the

Provided answer book only.

- 2. Figure to the right indicate the full marks of sub questions.
- 3.Draw a neat and labeled diagrams wherever necessary.

Maximum Marks:70

Q-1 CHOOSE CORRECT ANSWERS:

10

- 1 Mode of nutrition in Amoeba is :
 (a)Holophytic (b Saprophytic(c)Mixotrophic (d)Holozooic
- 2 Hydra is ----- animal. (a)Acoelomate (b)Pseudocoelomate (c)Coelomate (d)None of these.
- 3 Clitellum in pheretima includes segments : (a)12,13,14.(b)13,14,15.(c)14,15,16.(d)15,16,17.
- 4 Elephantiasis occur due to : (a)male aedes mosquito(b)wuchereria bancrofti(c)plasmodium vivax (d)male culex mosquito
- 5 Male and female cockroach can be distinguished by:
 - (a) Anal cerci(b)anal styles (c)mouth parts (d)compound eyes
- 6 Ootheca of cockroach is secreted by :
 - (a) Mushroom gland (b)conglobate gland(c)collaterial gland(d)genital pouch of female.
- 7 The larva of Balanoglossus is known as:
 (a)Tornaria(b)Amphiblastula(c)Parenchymula(d Trochophore
- 8 In balanoglossus excreation is done by : (a)proboscis gland(b)kidney (c)skin (d)nephridia
- 9 The body cavity of earthworm is:
 (a)pseudocoelom (b)acoelom(c)haemocoel(d)true coelom
- 10 Respiratory pigment present in cockroach is: (a)haemoglobin(b)haemocynin(c)both (d)none

Q-2		ANSWER IN SHORT:(ANY TEN)	20
	1	What is chemotaxis in Amoeba.	
	2	What is volvent? Write it's functions .	•
*	3	Write about contractile vacuole in amoeba.	
	4	Write any three functions of body wall of an Earthworm.	
	5	Draw a neat and labeled diagram of ventral view of an earthworm showing	
		segments no. 13 to 20.	
	6	What is clitellum?	
	7	List the name of hormones involved in insect metamorphosis.	
	8	List the name of mouthparts in cockroach.	
	9	What is intima? Write it's significance.	
	10	What is ciliary feeding?	
	11	Write about harmful molluscs.	
	12	Give the name of parts which forms the water vascular system in sea-star.	
Q-3	Α	Explain sol-gel theory of locomotion in Amoeba proteus.	07
	В	Write a note on Glutinants.	03
		OR	-
Q-3	Α	Write a brief account of stinging cells.	07
	В	Draw neat & labelled diagram of Amoeba proteus.	03
Q-4	Α	Describe the digestive system of an Earthworm.	07
	В	Write a note on pharyngeal nephridia.	03
		OR	
Q-4	Α	Describe coelom and coelomic fluid in an Earthworm.	07
	В	Write a note on external morphology of Filarial worm.	03
Q-5		Describe the excretory system & physiology of excretion in Cockroach. OR	10
Q-5		Describe the lacunar circulatory system of Cockroach.	10
Q-6	Α	Describe respiration in Balanoglossus.	05
	В	Write a note on Beneficial molluscs.	05
		OR CANADA CA	
Q-6	A	Explain external morphology of Balanoglossus.	05
	В	How the locomotion Is performed in sea-star.	05