B.Sc. Part-I Semester-I Examination ZOOLOGY

LIFE AND DIVERSITY OF NON-CHORDATA

Time: T	'hree	Hou			,01.	[Maximum Marks	: 80	
N.B.:—	(1)	All	questions are co	mpulsory.				
	(2)	Q. 1	No. 1 carries 8 n	narks and remaining	question	ns carry 12 marks each.		
	(3)							
1. (A)	Fill	in th	ne blanks :			•		
	(i)	The	vector of Tryp	anosoma is				
	(ii)	Live	er fluke lives in	the large	of live	r in sheep & goat.		
	(iii)	ln (Cockroach teeth	are present in	in	foregut.		
	(iv) Common name of Asterias is						2	
(B)	Choose the correct alternative for the following statement:							
	(v)	Free	e swimming lar	va of scypha is	·			
		(a)	Planula		(b)	Trochophore		
		(c)	Tornaria		(d)	Amphiblastula		
	(vi)	Prir	nary host of Fa	sciola hepatica is		,		
		(a)	Man		(b)	Pig		
	-	(c)	Sheep		(d)	Dog		
	(vii) The	total no. of se	gments in leech are	:			
		(a)	109		(b)	33		
		(c)	15		(d)	27		
	(viii) The	respiratory org	ans in pila are:				
		(a)	Gills		(b)	Pulmonary sac & gills		
		(c)	Both (a) & (b)		(d)	Shell	2	
(C)	Answer in one sentence :							
	(ix)	Wh	at are flame cel	ls ?				
	(x)	Wh	at is corallite?					
	(xi)	Hov	w many pairs of	f testis are present in	n leech	1?		
	(xii) Wh	at is Ascariasis	?			4	
2. Atte	empt	mpt the following:						
(a)	Stru	ictur	e of sporozoite	of plasmodium viva	X		4	
(b)	Lei	shma	nniasis				4	
(c)	Spo	rogo	ony				4	
				OR				

WPZ-8243

· 1

	(d) Liver Schizogony (Exoerythrocytic)	4
	(e) Amoebisis	4
	(f) Types of Malaria	4
3.	Describe the following:	
	(g) Spicules in sycon	4
	(h) Life cycle of metridium (diagram only)	4
	(i) General characters of phylum porifera	4
	OR	
	(j) Structure of choanocyte	4
	(k) Significance of canal system	4
	(l) Well labelled diagram of canal system.	4
4.	Give an account of excretory system of Fasciola hepatica and physiology of	of excretion. 12
	OR	
	Describe female reproductive system of Ascaris Lumbricoides.	12
5.	Attempt the following:	
	(m) Alimentary canal of leech (diagram only)	4
	(n) Testicular nephridium of leech.	4
	(o) Salivary glands of coekroach.	4
	OR	
	(p) Food and feeding in cockroach	4
	(q) Spiracle in cockroach	4
	(r) External features of leech.	4
6.	Describe reproductive system in male and female pila.	12
	OR	
	Give an account of habits, habitat and external features of starfish.	12
7.	Describe the following:	
	(s) Morphological adaptations in helminthes	4
	(t) Barrier reef	4
	(u) External structure of Balanoglossus	4
	OR	
	(v) General characters of hemichordata	4
	(w) Tornaria larva of Balanoglossus	4
	(x) Atoll	Α