2020

ZOOLOGY — HONOURS

Paper: CC-1

(Nonchordate I)

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any fifteen questions of the following:

 2×15

- (a) What is Linnaean hierarchy?
- (b) What are manubrium and tentaculocyst?
- (c) What is siphonoglyph?
- (d) Distinguish between systematics and taxonomy.
- (e) Give one example of each of biradial and pentamerous radial symmetry.
- (f) What are the significances of conjugation in Paramoecium?
- (g) Distinguish between cytostome and cytopyge.
- (h) Classify subkingdom Protozoa up to phylum (Levine et al., 1980) schematically.
- (i) What is the role of flame cell?
- (j) Mention the salient features of phylum Ctenophora.
- (k) What is relapse in malarial infection?
- (1) What are the infective stages of *Plasmodium vivax* and *Ascaris lumbricoides* to human host?
- (m) Distinguish between definitive and intermediate host.
- (n) Distinguish between metamerism and pseudometamerism.
- (o) Name any two cell types found in sponge body.
- (p) Give an example of animal having only polypoid and only medusoid stage. Mention their classes.
- (q) Define polymorphism with example.
- (r) What is a 'type'?
- (s) What is nematocyst? Where do you find this?
- (t) Mention the characteristics of class Cestoda.
- (u) What is rhabdite? State its function.

Please Turn Over

(v)	Distinguish between Phasmidia and Aphasmidia.		
(w)	Distinguish between male and female Ascaris lumbricoides.		
(x)	Mention two factors behind nocturnal periodicity of W. bancrofti.		
(y)	Wha	t is Loeffler's syndrome?	
Ansv	ver <i>ar</i>	ny four questions of the following:	
(a)	(i)	When do we designate a neotype?	
	(ii)	What are the requisites of Binomial Nomenclature?	
	(iii)	What is a tautonym?	2+2+1
(b)	(i)	Briefly mention the salient features of Carl Woese Classification.	
	(ii)	What is law of priority?	3+2
(c)	Write	Write short notes on (any two): 2½	
	(i)	Migration of larval forms of Ascaris lumbricoides	
	(ii)	Formation of metachronal wave in Paramoecium sp.	
	(iii)	Solation- Contraction theory in Amoeboid movement	
	(iv)	Role of symbiotic algae in coral reef formation.	
(d)	(i)	Give an account of leuconoid type of canal system.	
	(ii)	What are the physiological importance of canal system?	3+2
(e)	Class	assify phylum Porifera (up to class) with suitable characters and example.	
(f)	(i)	Explain the parasitic adaptations in Taenia solium.	
	(ii)	Mention the pathogenic symptoms of liver rot disease.	3+2
(g)	(i)	What is tagmatisation?	
	(ii)	Discuss the polypoid forms in Siphonophora.	2+3
(h)	(i)	What is atoll?	
	(ii)	What are the different types of spicules found in sponges?	
	(iii)	Give an example of solitary and colonial coral.	1+2+2

(2)

T(1st Sm.)-Zoology-H/CC-1/CBCS

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