Seat N	lo.	:	
--------	-----	---	--

# **DJ-102**

December-2022

B.Sc., Sem.-III

CC-201: Zoology

# [Animal Diversity (Non-Chordates) and Parasitology]

(New)

Tim	e : 2:	[Max. Marks: 70			
			Draw neat labelled diagram wherever necessary.  Figures on right indicates marks.		
1.	Wri	te the fo	llow	ing:	
	(i)	Classi	fy fo	llowing animals upto class giving reason:	7
		(1)	Poly	rstomella	
		(2)	Gran	tia	
	(ii)	Give a	an a	ccount of general characters of phylum coelenter	ata and specify
				of class Anthozoa with example.	1
				OR	
	(i)	Classif	y the	e following animals upto class giving reason:	7
		(1) H	lydr	a	
		(2)	Asca	ries	
	(ii)	Give a	n ac	count of general characters of phylum Annelida and sp	ecify characters
			100000000	rudinea with example.	7
					,
2.	Writ	e the fo	llow	ing:	
	(i)	Descri	be n	ale reproductive organs of earthworm.	7
	(ii)	Descri	be T	.S. passing through the typhlosolar region of intestine o	of earthworm.
				OR	,
	(i)	Descri	be d	igestive system of earthworm.	7
	(ii)	Descri	be s	eptal nephridia in earthworm.	7
				3	P.T.O.

## Write the following:

- (i) Describe coral reefs in coelenterata.
- (ii) Describe type of symmetry with examples.

#### OR

- Describe adaptive radiation in polychaeta.
- (ii) Describe types and significance of metamerism.

### Write the following:

- (i) Life-cycle of Entamoeba histolytica.
- (ii) Life-cycle and pathogenicity of Leishmania donovani.

#### OR

- (i) Life-cycle and pathogenicity of Wuchereria bancrofti.
- (ii) Life-cycle of Taenia solium (in pig).

# 5. Answer the following briefly: (any seven)

- (1) Give any two general characters of phylum protozoa.
- (2) In which animal phylum flame cells are found?
- (3) State the hosts of liver fluke.
- (4) In which segments does the blood gland found in earthworm?
- (5) What is entero-nephric excretion?
- (6) Which kind of fertilization is found in earthworm?
- (7) Give the examples of animals having spherical symmetry.
- (8) What is the difference between pseudocoelom and acoelom?
- (9) Give the examples of animal having true metamerism.
- (10) What is exo-parasite? Give an example.
- (11) Define reservoir host, with example.
- (12) In which parasite's life cycle Onchospher is one of the stage?

7

14

	Seat No.:			
	DJ-102			
	December-2022			
	B.Sc., SemIII			
	CC-201 : Zoology			
[Animal	Diversity (Non-Chordates) Parasitology, Genetics &			
	Animal Biotechnology			
	(Old)			
30 Hours]	[Max. ]	Marks: 70		
ns: (1)	Draw neat labelled diagram wherever necessary.			
(2)	Figures on right indicates marks.			
e the follow				
	eneral characters of phylum porifera and specify the characters o	f class:		
Classify for	llowing animals upto class giving reason:	7		
	moecium			
(2) Nere	OR			
Give the	general characters of phylum nematoda and specify the chara	cters of		
class phasi	mida.	7		
Classify fo	ollowing animals upto class giving reason:	•		
(1) Phys	salia			
(2) Live	r fluke			
e the follow	ving:	7		
Describe e	excretory system of earthworm.	7		
Describe k	inds of coral – reefs.			
	OR	7		
Describe r	eproductive system of earthworm.	7		
Describe reproductive and significance of coelom.  P.T.O.				
HICAGOSOMICA CO	7			

Time: 2:30 Hours

Write the following:

Instructions:

(i)

(ii)

(i)

(ii)

(i)

(ii)

(i)

(ii)

Write the following:

1.

3.	Write	e the following:				
	(i)	Describe life cycle of Taenia solium (In human).				
	(ii)	Write a short note: Wuchereria bancrofti.				
		OR				
	(i)	Describe life-cycle of Leishmania donoyani.				
	(ii)	Write a short note: Entamoeba histolytica.				
4.	Write the following:					
	(i)	Write a short note: Multiple genes.				
	(ii)	Write a short note: Magnetic stirrer.				
		OR				
	(i)	Write a short note: Fram - Shift mutations.				
	(ii)	Write a short note: Cryostorage containers.				
5.	Ansv	ver the following briefly: (any seven)				
	(1)	Explain the term: Polymorphism.				
	(2)	State any two characters of class: Trematoda and give example.				
	(3)	State the location and function of flame cell.				
	(4)	Which cells are found in the epidermis of earthworm?				
	(5)	Which segments have lateral and lateral oesophageal hearts in earthworm?				
	(6)	Give the examples of animals having radial symmetry.				
	(7)	Define term parasite.				
	(8)	Give example of well-known reservoir host.				
	(9)	Name the two morphological forms of Leishmania.				
	(10)	What is pleiotropism?				
	(11)	Give an example of duplicate genes.				
	(12)	State the uses of micropipettes.				