

Seat No.

HAJ-003-1015017

B. Sc. (Sem.-V) (WEF-2016) Examination May - 2023

Z-501 : Functional Anatomy of Non-chordates

Faculty Code : 003 Subject Code : 1015017

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

Instructions : (1			(1)	Draw neat and labelled diagram when necessary.	rever
			(2)	Numbers to the right side indicate full m questions.	arks of the
1	(a)	Ans	wer the t	following questions:	4
		(1)	Define	Non-chordates.	
		(2)	Who is	a father of Zoology ?	
		(3)	Who ha	as proposed binomial nomenclature?	
		(4)	Main c	haracters of Protista phylum - any two.	
	(b) Answer in b		wer in b	rief : (any one)	2
		(1)	Genera	l character of porifera phylum - any four.	
		(2)	Importa	ant characters of protozoa phylum.	
	(c)	Answer in detail : (any one)			3
		(1)	Class n	ame with example : Mollusca phylum.	
		(2)	Genera	l character of phylum Annelida.	
	(d) Write a no		e a note	e on : (any one)	5
		(1)	Explair	n phylum - Hemichordata.	
		(2)	Explair	n phylum : Echinodermata with example.	
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2	(a)	 Answer the following questions : (1) Scorpion belongs to which class ? (2) How many pairs appendages in Scorpion ? (3) Habitat of sepia. (4) Sepia belongs to which phylum ? 	4
	(b)	 Answer in brief : (any one) (1) Draw and labels - Ink-sac in sepia. (2) Pectin in Scorpion. 	2
	(c)	 Answer in detail : (any one) (1) Classify with reasons - Sepia. (2) Explain book lungs of scorpion. 	3
	(d)	 Write a note on : (any one) (1) Explain nervous system of sepia with figure. (2) Ventral view of Scorpion with figure. 	5
3	(a)	 Answer the following questions : (1) Locomotory organs of Protozoa. (2) What are coral reefs ? (3) Define polymorphism. (4) Give two name - parasitic protozoans of man. 	4
	(b)	 Answer in brief : (any one) (1) Types of nutrition in protozoa. (2) Importance of polymorphism. 	2
	(c)	 Answer in detail : (any one) (1) Importance of sponge industry. (2) Explain coral. 	3
	(d)	 Write a note on : (any one) (1) Reproduction in sponge. (2) Details in coral reefs. 	5
4	(a)	 Answer the following questions : (1) What is metamerism ? (2) Why endoparasite is not digested by digestive junction the host ? (3) Define metamorphosis. (4) Ancylostomiasis is caused by which animal ? 	4 ices of
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(b)	 Answer in brief : (any one) (1) Draw and Labels - Megalopa larva (2) Draw and labels - Mysis Larva 	2
(c)	 Answer in detail : (any one) (1) Mode of infection and disease caused of Ascaris. (2) Zoological importance of Peripatus. 	3
(d)	 Write a note on : (any one) (1) Metamorphosis in insects. (2) Metamerism and its significance in Annelida. 	5
(a)	 Answer the following questions : (1) Define Torsion. (2) Function of water vascular system. (3) Give the name of Balanoglossus larva. (4) Write two larval forms name of Echinodermata phylum. 	4
(b)	 Answer in brief : (any one) (1) Detorsion (2) Diagram of Brachiolaria larva 	2
(c)	 Answer in detail : (any one) (1) Ophioplutes larva. (2) Tornaria larva. 	3
(d)	 Write a note on : (any one) (1) Water vascular system in Echinodermata phylum. (2) Foot in Mollusca. 	5

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