

Reg. No.	
Name :	

Second Semester B.Sc. Degree (CBCSS – OBE-Regular/Supplementary/ Improvement) Examination, April 2024 (2019 Admission Onwards) CORE COURSE IN ZOOLOGY 2B02ZLG: Nonchordata – 2

Time: 3 Hours Max. Marks: 40

Instruction: Give illustrations and figures wherever necessary.

- I. Essay questions. Each question carries 8 marks. Answer any two. (2×8=16)
 - 1) Write an account on Phylum Onychophora. Analyse affinities of *Peripatus*, with Phylum Annelida and Arthropoda.
 - 2) Explain the reproductive system and life cycle of the *Penaeus*.
 - 3) Explain the economic importance of Molluscs.
 - 4) Write an essay on the larval forms of Echinoderms.
- II. Short Essay. **Each** question carries **4** marks. Answer **any two**. (2×4=8)
 - 5) Describe the adaptations of Hirudinaria.
 - 6) Describe the major steps in pearl culture.
 - 7) Provide a short account of *Bombyx mori*, and its significance in sericulture.
- III. Short Answer Questions. Each question carries 2 marks. Answer any six.

 $(6 \times 2 = 12)$

- 8) What is heteronereis?
- 9) Describe sexual dimorphism seen in *Penaeus*.
- 10) What is the evolutionary significance of Limulus?
- 11) What is radula?
- 12) Comment on evisceration.
- 13) List out four major features of Phylum Hemichordata.
- 14) What is parasitic castration?
- 15) Give a brief account on *Chiton*.



IV.	. Multiple Choice Questions. Each question carries 0.5 marks. Answer all . (8×0.5=4)							
16) What is a characteristic feature of Phylum Echiura?								
		A)	Articulating pla	ites	B)	Tube feet		
		C)	Proboscis		D)	Water vascul	lar s	ystem
	17)	Thi	ck and saddle li	ke band found in th	ne e	arthworm.		
		A)	Clitellum	B) Peristomium	C)	Prostomium	D)	Proboscis
	18)		ong the Coelor	nate Minor Phyla, v		ch example is	ass	sociated with
		A)	Balanoglossus	B) Phoronis	C)	Bugula	D)	Bonellia
	19)	Wh	at is the signific	cance of Class Trilo	bita	?		
		A)	Represent a tr	ansitional form to v	erte	brates		
		B)	Extinct group v	with fossil importan	се			
		C)	Dominant mari	ine arthropods				
		D)	Major agricultu	ıral pests				
20) What is the common name of holothurians?								
		A)	Sea Cucumbe	r	B)	Sea Urchin		
		C)	Brittle Star		D)	Star Fish		
	21)	Pei	rna belongs to t	he class				
		A)	Scaphopoda	B) Cephalopoda	C)	Bivalvia	D)	Gastropoda
	22) Which of the following is commonly known as Hermit Crab?					?		
		A)	Sacculina	B) Eupagurus	C)	Limulus	D)	Palamnaeus
	23)	Ink	sac complex is	found in				
		A)	Sepia	B) Pila	C)	Perna	D)	Dentalium



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II Semester B.Sc. Degree (CBCSS – OBE-Reg./Sup./Imp.)

Examination, April 2021

(2019 Admission Onwards)

CORE COURSE IN ZOOLOGY

2B02ZLG: Non-Chordata – II

Time: 3 Hours Max. Marks: 40

Instruction: Give illustrations and figures wherever necessary.

- I. Essay questions (Each question carries 8 marks). Answer any 2.
 - Describe the structure and functions of Penaeus appendages with suitable diagrams.
 - Enlist the salient features of Phylum Echinodermata. Classify the phylum down to classes with salient features and examples.
 - 3) With a neat labelled sketch, describe the Mantle cavity and Pallial complex of Pila.
 - Define connecting link. Enlist the salient features of Peripatus with special emphasis on its role as a connecting link.
- II. Short Essay questions (Each question carries 4 marks). Answer any 2.
 - 5) Write a short note on the economic importance of molluscs.
 - 6) Describe the adaptive features of the parasitic form Hirudinaria.
 - 7) Explain the external morphology of Nereis.
- III. Short Answer questions (Each question carries 2 marks). Answer any 6.
 - 8) What are pedicellaria? Mention the functions.
 - 9) Explain sexual dimorphism in Penaeus.
 - 10) What is radula? Mention its function.

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d) Apis dorsata

11)	What is parasitic ca	astra	ation? Give an exa	amı	ple.		
12)	Name the type of m a) Cockroach b) Plant bug c) Mosquito d) Housefly.	nout					
13)	What is vermicultur	re?	Add a note on its	sigi	nificance.		
14)	Define Sericulture.						
15)	Nuchal Organs.						
. Mu	Itiple choice question	ons	(Each question ca	ırrie	es 0.5 marks). Ans	swe	r all.
	Water vascular sy a) Devil fish	yste			Silver fish		Cuttle fish
17)	Arenicola belong	s to	phylum				
	a) Arthropoda	b)	Annelida	c)	Mollusca	d)	Echuroidea
18)	A respiratory prod a) Endopodite		connected to max Protopodite		peds and cheliped Exopodite		Epipodite
19)	In prawn cephalot			ior	n of		
	a) 19 segments	b)	17 segments	c)	15 segments	d)	13 segment
20)	Ship worm is a) Annelid	b)	Echinoderm	c)	Mollusca	d)	Arthropod
21)	Growth by addition	n of	new segments in	fro	ont of pygidium is	calle	ed
	a) Telomeric	b)	Teloblastic	c)	Telophasic	d)	Telodendric
22)	a) Apis dorsata		y Apis mellifera	c)	Apis indica	d)	Trigona
23)	Silk worm moth is a) Bombyx mori		Cimex hemiptera	c)	Tabanus		Apis dorsal

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II Semester B.Sc. Degree (CBCSS (OBE)-Regular) Examination, April 2020 (2019 Admission)

CORE COURSE IN ZOOLOGY

2B02ZLG : Non-Chordata – II

Time: 3 Hours Max. Marks: 40

Instruction: Give illustrations and figures wherever necessary.

- Essay questions (Each question carries 8 marks). Answer any 2.
 - Write an essay on water vascular system in Star fish with a suitable sketch.
 - Enlist the salient features of Phylum Annelida. Classify the phylum down to classes with salient features and examples.
 - 3) With a neat labelled sketch describe the nervous system of Penaeus.
 - 4) Outline the strategies of Mussel farming and Pearl Culture.
- II. Short essay questions (Each question carries 4 marks). Answer any 2.
 - 5) What is heteronereis? Enlist the significant salient features.
 - 6) List the salient features of Phoronida.
 - 7) Discuss the life cycle and damage induced by *Leptocorisa acuta*. Add a note on its control measures.
- III. Short answer questions (Each question carries 2 marks). Answer any 6.
 - 8) Explain sexual dimorphism in Bonelia.
 - 9) What are statocysts? Mention the function.
 - 10) What is ink sac? Cite its function.

c) Palaemon



 Define Evisceration. Give an example of an eviscerating organism. 12) What are sinuses and lacunae? Osphradium. 14) Write the names of phylum and class to which the following organisms belong to: (a) Perna (b) Penaeus. 15) List any 2 adaptations of Chiton. IV. Multiple choice questions (Each question carries 0.5 marks). Answer all. 16) Bugula belongs to Phylum : a) Phoronida b) Gastrotricha c) Ectoprocta d) Echiurida 17) The larva of Limulus a) Trocophore b) Trilobite c) Bipinnaria d) Auricularia 18) Vector of Leishmania a) Sand fly b) House fly c) Culex d) Tsetse fly 19) Smallest appendage of Prawn a) 1st maxilla b) 2nd maxilla c) 3rd maxilla d) 1st maxilliped 20) The larva of Balanoglossus a) Trocophore b) Trilobite c) Tornaria d) Auricularia 21) Wingless insect a) Mantis b) Tabanus c) Lepisma d) Stick insect 22) Which of the following is not an arachnid? a) Scorpion b) Spider c) Ticks d) King crab 23) Genus of hermit crab a) Sacculina b) Eupagurus

d) Limulus