

Reg. No.:



Name:

University of Kerala

U9198

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

ZOOLOGY

UK2DSCZOO101 - Non-Chordate Diversity -Part II

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Choose the following classes includes sea urchins? Options : A)a) Asteroidea B)b) Echinoidea C)c) Holothuroidea D)d) Ophiuroidea	RE	1
2	Choose the excretory organs of annelids. Options : A)(a) Malpighian Tubules B)(b) Nephridia C)(c) Contractile Vacuoles D)(d) Skin	RE	1
3	Excretory organ commonly seen in arthropods Options : A)a. Kidney B) b. nephridia C) c. Malpighian tubules D) d. hepatic caeca	UN	2
4	Choose the class of molluscs is known for its spiral, coiled shell? Options : A)a) Scaphopoda B)b) Gastropoda C)c) Polyplacophora D)d) Pelecypoda	UN	2
5	Define a bio-oxidative process which utilize earthworm. Options : A)A) Bioremediation B)B) Phosphorylation C)C) Vermicomposting D)D) Respiration	UN	5
6	Which is the characteristics feature of phylum Echinodermata Options :	UN	1

Qn No.	Question	CL	CO
	A) Spiny skinned B) Segmentation C) Shell D) Jointed legs		

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO										
7	Describe tube feet with the help of a diagram	UN	2										
8	Match the following	UN	1										
	<table><tr><td>A</td><td>B</td></tr><tr><td>a. Nauplius</td><td>1. Cephalothorax</td></tr><tr><td>b. Metanauplius</td><td>2. Carapace</td></tr><tr><td>c. Protozoa</td><td>3. Masticatory lobe</td></tr><tr><td>d. Zoa</td><td>4. Median Eye</td></tr></table>			A	B	a. Nauplius	1. Cephalothorax	b. Metanauplius	2. Carapace	c. Protozoa	3. Masticatory lobe	d. Zoa	4. Median Eye
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9	Explain the functions of Thelycum and petasma in prawns.	AP	4										
10	Interpret the role of Annelids in various Ecosystem.	AP	5										

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Analyse the structure of the prawn nervous system. OR B) Discuss the general characters of phylum Arthropoda.	AP	3, 1
12	A) Evaluate the role of molluscs in the welfare of humans in a wide perspective. OR B) Examine the general characters of Onychophora	AN	5, 3
13	A) Evaluate the distinct larval forms in the life history of Phylum Echinodermata by examining their morphological and functional differences. OR B) Outline the external morphology of a typical arthropod, such as a prawn.	EV	4, 2
14	A) Construct a diagrammatic comparative analysis of the structure and function of parapodia and setae in annelids. OR B) Explain the unique features of earthworms that make them “friends of farmers”. Also, examine how vermicompost's structure and composition differs from other organic manure.	CR	3, 5

