

Reg. No.:



Name:

University of Kerala

U8752

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	Recognize the organism with Aristotle's lantern. Options : A)a. Starfish B)b. Sea urchin C)c. Sea cucumber D)d. Brittle star	RE	1
2	Identify the organism which belongs to the class Oligochaeta? Options : A) a) Nereis B)b) Earthworm C)c) Leech D)d) Chiton	RE	1
3	The excretory organ seen in insecta Options : A)a. Malpighian tubule B)b. Green glands C)c. Nephridia D)d. Protonephridia	UN	3
4	Neopilina belongs to the class----- Options : A)a)Aplacophora B)b)Monoplacophora C)c) Polyplacophora D)d) Gastropoda	UN	1
5	Choose the characteristic feature of Phylum Annelida Options : A)A) Muscular foot B)B) Radula C)C) Metamerism D)D) Polymorphism	UN	1
6	Identify the larval form of Echinodermata: Options : A) a) Trochophore B) b) Bipinnaria C) c) Nauplius D) d) Planula	UN	1

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	Match the following	UN	1	
	a) Monoplacophora			1) Sepia
	b) Polyplacophora			2) Neopilina
	c) Scaphopoda			3) Chiton
	d) Cephalopoda			4) Dentalium
8	Describe the defense mechanism of scorpions	UN	2	
9	Explain the process of parasitic castration.	AP	2	
10	How does a leech adapt to a parasitic mode of life?	AP	4	

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) Explain the economic importance of species under the Phylum Mollusca. OR B) Classify Phylum Mollusca with short descriptions of a general example for each class.	AP	5, 1
12	A) Analyze the parasitic adaptations of <i>Sacculina</i> in relation to its host within Crustacea. Also state how these adaptations affect the host. OR B) Examine the characteristic features of class Crustacean	AN	2, 1
13	A) Explain the unique characteristics of <i>Peripatus</i> that justify its classification as a connecting link between Annelida and Arthropoda. OR B) Explain the functional significance of different appendages in a prawn, highlighting their role in locomotion, feeding, and sensory perception.	EV	2, 3
14	A) Explain the salient features of Class Echinoidea with an example. OR B) Differentiate the morphological differences between Nereis and Heteronereis.	CR	2, 2