| **University of Kerala** | | |
| --- | --- | --- |
| Discipline: Zoology |  | Time: 1 Hour 30 Minutes (90Mins.) |
| Course Code: UK1DSCZOO101 - 1 |  | Total Marks: 42 |
| Course Title: Non-Chordate Diversity-Part I |  |  |
| Type of Course: DSC |  |  |
| Semester: 1 |  |  |
| Academic Level: 100-199 |  |  |
| Total Credit:4, Theory: 3 Credits+ Practical :1 Credit  (Applicable for 4 Credit Course with 1 Credit Practical Also) |  |  |

Part A. 6 Marks. Time: 6 Minutes

Objective Type. 1 Mark Each. Answer All Questions

(Cognitive Level: Remember/Understand)

| **Qn**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| --- | --- | --- | --- |
| 1. | Which class of Porifera does Sycon belong to?  A) Calcispongia  B) Hydrospongia  C) Demospongia  D) Hexactinellida | Remember | 2 |
| 2. | Which of the following is an example of a pseudocoelomate animal?  A) Flatworm  B) Roundworm  C) Earthworm  D) Jellyfish | Remember | 3 |
| 3. | What type of body cavity is present in Pseudocoelomates?  A) No body cavity  B) Body cavity lined with mesoderm on both sides  C) Body cavity partially lined with mesoderm  D) Body cavity filled with water | Understand | 3 |
| 4. | Who governs the rules of zoological nomenclature?  A) IUCN  B) ICZN  C) WWF  D) WHO | Understand | 1 |
| 5. | In the Five Kingdom classification, which kingdom includes unicellular eukaryotic organisms?  A) Monera  B) Protista  C) Fungi  D) Animalia | Understand | 1 |
| 6. | Which of the following principles is regulated by the International Code of Zoological Nomenclature (ICZN)?  A) Classification of species based on habitat  B) Rules for naming animals  C) Evolutionary relationships between animals  D) Methods of genetic analysis in animals | Understand | 1 |

Part B. 8 Marks. Time: 24 Minutes

Short Answer. 2 Marks Each. Answer All Questions

(Cognitive Level: Understand/Apply)

| **Qn**  **No** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| --- | --- | --- | --- |
| 7. | Match the following.   | a.Kingdom | 1. *sapiens* | | --- | --- | | b. Phylum | 2.Animalia | | c.Genus | 3.Chordata | | d. Species | 4. Homo | | Understand | 1 |
| 8. | What distinguishes Protostomes from Deuterostomes in terms of development? | Understand | 3 |
| 9. | Compare and contrast the body plans of Radiata and Bilateria. | Apply | 4 |
| 10. | Examine the role of *Trichonympha* as an endosymbiont | Apply | 5 |

Part C. 28 Marks. Time: 60 Minutes

Long Answer. 7 marks each. Answer all 4 Questions, choosing among options within each question.

(Cognitive Level: Understand/Apply/Analyse/Evaluate/Create)

| **Qn**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| --- | --- | --- | --- |
| 11. | (a)Explain how the principles of binomial nomenclature help us to name a newly discovered animal species?  **OR**  .  Discuss the principles of zoological nomenclature and explain the significance of the International Code of Zoological Nomenclature (ICZN). | Understand | 1 |
| 12. | (a) Discuss the zoological importance of Noctiluca, Paramecium and Trichonympha.  **OR**  (b)Explain the life cycles of *Plasmodium vivax* in terms of pathogenicity and prevention methods. | Apply | 2 |
| 13. | (a)Explain how the canal system in sponges supports their feeding and respiration mode  **OR**  (b)Explain the general characteristics of Phylum Porifera and classify up to classes. | Apply | 4 |
| 14. | (a)How would you explain the adaptive significance of polymorphism in Cnidarians using examples like Obelia?  **OR**  (b)Discuss the structure and function of corals and explain the formation of different types of coral reefs. | Apply | 3 |

| **Cognitive Level** | **Marks** | **Percentage** |  | **Course Outcomes** | **Marks** | **Percentage** |
| --- | --- | --- | --- | --- | --- | --- |
| Remember | 2 | 4.76 |  | CO1 | 12 | 28.57 |
| Understand | 15 | 35.72 |  | CO2 | 8 | 19.04 |
| Apply | 25 | 59.52 |  | CO3 | 11 | 26.19 |
| Analyse | 0 | 0 |  | CO4 | 9 | 21.42 |
| Evaluate | 0 | 0 |  | CO5 | 2 | 4.76 |
| Create | 0 | 0 |  |  |  |  |
| **TOTAL** | **42** | **100** |  | **TOTAL** |  | **100** |