| **University of Kerala** | | |
| --- | --- | --- |
| Discipline: ZOOLOGY |  | Time: 1 Hour 30 Minutes (90Mins.) |
| CourseCode:UK1DSCZOO103 |  | TotalMarks:42 |
| Course Title : WILDLIFE BIOLOGY AND CONSERVATION |  |  |
| Type of Course: DSC |  |  |
| Semester:1 |  |  |
| AcademicLevel:100-199 |  |  |
| TotalCredit:4,Theory: 3 Credit + Practical :1 Credit |  |  |

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 among the following is a mangrove habitat  A) Vembanad  B) Pichivaram  C) Shola forest  D) Sundarbans Delta | Understand | 1 |
| 2. | Which is an Ex-situ conservation strategy?  A) National park.  B) Zoological park.  C) Biosphere reserve.  D) Wildlife Sanctuary. | Understand | 2 |
| 3. | Expansion of IUCN   1. International Union for Chemistry and Natural science 2. International Union for Cooperation on Natural Resources 3. Indian Union for Conservation of Nature 4. International Union for Conservation of Nature | Remember | 2 |
| 4. | Which is the Indian Act in 1972, to provide for the protection of wild animals, birds and plants with a view to ensure the ecological and environmental security of the country?   1. Biological diversity Act 2. Indian wildlife (Protection ) Act 3. National Biodiversity Act 4. Indian Biodiversity Act. | Remember | 3 |
| 5. | Apple snail is an example for ---- species.   1. Endemic species 2. Invasive species 3. Threatened species 4. Vulnerable species | Understand | 2 |
| 6. | Giant panda is an example for ------- species, which has been chosen to protect the other species in the same ecosystem?  A) Alpha species.  B) Umbrella species.  C) Edge species.  D)Keystone species | Understand | 2 |

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 | B | | --- | --- | | 1. Forest habitat | 1.Thar | | 1. Desert habitat | 2.Sunderbans | | 1. Aquatic habitat | 3. Shola | | 1. Wetland habitat | 4.Vembanad lake. | | Understand | 1 |
| 8. | What are the defining characteristics of Biodiversity hotspots? | Understand | 3 |
| 9. | Compare and contrast the ecological significance of key stone species and edge species. | Understand | 2 |
| 10. | What is captive breeding? | Apply | 4 |

Part C.28 Marks. Time: 60 Minutes

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

(CognitiveLevel: Apply/Analyse/Evaluate/Create)

| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome(CO)** |
| --- | --- | --- | --- |
| 11. | (a)Explain the various conservation projects - project tiger, cheetah and elephant.  **OR**  (b)Analyze the functions of different wildlife conservation organizations such as WWF, BNHS, WCS and IUCN. | Analyze | 4 |
| 12. | (a)ADiscuss about the zoological parks in Kerala and their role in wildlife conservation.  **OR**  (b)Compare and contrast the various *In-situ* conservation strategies. | Analyze | 4 |
| 13. | (a)Describe the major threats to wildlife .  **OR**  (b)Critically examine man-animal conflicts and suggest management strategies to effectively mitigate such conflicts | Analyze | 5 |
| 14. | 1. Assess the significance of Project Cheetah and Project Rhino in protecting wildlife.   **OR**  (b)Discuss the need for wildlife conservation through the Acts in 1972 and 2002. | Apply | 5 |

| **Cognitive Level** | | **Marks** | | **Percentage** | |  | **Course Outcomes** | | **Marks** | **Percentage** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Remember | | 2 | | 4.76 | |  | 1 | | 3 | 7.1 |
| Understand | | 10 | | 23.81 | |  | 2 | | 6 | 14.28 |
| Apply | | 9 | | 21.42 | |  | 3 | | 3 | 7.1 |
| Analyse | | 21 | | 50 | |  | 4 | | 16 | 39.5 |
| Evaluate | | 0 | |  | |  | 5 | | 14 | 33.33 |
|  |  | |  | |  | | |
| **TOTAL** | | **42** | | **100** | |  | **TOTAL** | | **42** | **100** |