M.Sc. WILDLIFE CONSERVATION
First Semester
FUNDAMENTALS OF WILDLIFE & CONSERVATION
(MWS - 101)

Duration: 3Hrs.   **Full Marks: 70**

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.   **Marks: 50**

Answer any *four* from *Question no.* 2 to 8
Question no. 1 is compulsory.

1. Write the differences of the following-   (5+5=10)

   (a) Wildlife and feral animals.

   (b) Captive animals and domestic animals.

2. Write short notes-   (2.5×4=10)

   (a) Natural selection

   (b) Ecosystem services

   (c) Nutrient cycles

   (d) IUCN

3. What do you mean by sustainable development? Write the objectives of sustainable development. Explicate the various issues related to sustainable development.

   (2+4+4=10)

4. Define human-wildlife conflict. Brief the causes and impact of human-wildlife conflict. Also mention about the various mitigation measures.   (2+6+2=10)

5. What is Biogeography? Discuss the theory of island biogeography.   (5+5=10)

6. Discuss the main systems of classification used for plants.   (10)

7. Write a note on simple random sampling for vegetation. How does it differ from cluster sampling? (5+5=10)

8. Write a note on the identification of plants taking any two plant families as an example. (10)

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Duration: 20 minutes   **Marks – 20**

(PART A - Objective Type)

I. Choose the correct answer: **1×20=20**

i) IUCN was established in –
   (a) 1947   (b) 1948   (c) 1967   (d) None of the above

ii) Who first ever enforced strict laws prohibiting the hunting of wild animals as a sport?
   (a) Akbor   (b) Jahangir
   (c) Chandragupta Maurya   (d) None of the above

iii) Killing of captive animal is –
   (a) Not prohibited under law   (b) Strictly prohibited under law
   (c) No regulation   (d) None of the above

iv) Who first ever appointed a Kupyadhyaksha or Forest Department Head?
   (a) Ashoka   (b) Babur
   (c) Chandragupta Maurya   (d) None of the above

v) Which tribal community of Arunachal Pradesh never hunt tiger?
   (a) Adi   (b) Idu Mishmi
   (c) Nocte   (d) None of the above

vi) Feral animals are –
   (a) Free ranging but domesticated (b) Free ranging living in the wild
   (c) Captive animals   (d) None of the above

vii) The energy in an ecosystem flows in –
   (a) Multiple direction   (b) Unidirection
   (c) Bidirection   (d) None of the above

viii) When the food chain is short, the final consumers may get –
   (a) Large amount of energy   (b) Less amount of energy
   (c) Both a & b   (d) None

ix) The total incoming solar radiation is –
   (a) 18,872 gcal/cm^2/yr   (b) 188,872 gcal/cm^2/yr
   (c) 118,872 gcal/cm^2/yr   (d) None of the above

x) Who first of all suggested that life originated in water?
   (a) Anaximander   (b) Thales
   (c) Xenophanes   (d) None of the above

xi) Study of food web is important to know –
    (a) Inter-species relationship   (b) Intra-species relationship
    (c) Both a & b   (d) None of the above

xii) How many types of ecosystem services were established by MA?
    (a) Three   (b) Four   (c) Five   (d) None of the above

xiii) The ecological pyramid of a pond ecosystem is –
    (a) Pointed upward   (b) Inverted
    (c) Both a & b   (c) None of the above

xiv) Who forwarded the Biogenetic Law or Recapitulation Theory?
    (a) Lamarck   (b) Empedocles
    (c) Ernst Haeckel   (d) None of the above

xv) The forest type mostly found in Northeast India is –
    (a) Evergreen Forest   (b) Semi-evergreen forest
    (c) Mangrove and Swampy   (d) Both a and b

xvi) In binomial system of Nomenclature, the species name is in –
    (a) Capital letters   (b) Small letters
    (c) Italics small letters   (d) Italics capital letters

xvii) The language used in Binomial Nomenclature is –
    (a) Roman   (b) Latin
    (c) Spanish   (d) English

xviii) Champion and Seth gave the classification for –
    (a) Forest types in India   (b) Grasslands in India
    (c) Desserts in India   (d) None of the above

xix) Trinomial nomenclature is used for the specifically –
    (a) Generic epithet   (b) Specific epithet
    (c) Sub-specific epithet   (d) None of the above

xx) What is the full form of the acronym ICZN?
    (a) International Code for Binomial Nomenclature.
    (b) International Code of Zoological Nomenclature.
    (c) International Code of Botanical Nomenclature.
    (d) International Union for Conservation of Nature.

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