



Biyani Girls College

Session - (2015-2016)

Model Paper A

M.Sc. Final

Paper - V (Env. Sc., Ecological Principle, Wild-life and Conservation Biology)

Time: 3 Hrs.

Max. Marks: 100

Q.1. Answer to the point any 20 of the following.

Write the difference between (a to h):-

- A) Competition and commensalism
- B) Desertification and deforestation.
- C) Ecosphere and Ecosystem
- D) Ex-situ and in-situ conservation
- E) Planktons and Nektons
- F) Mortality and Natality
- G) Producers and decomposers
- H) Rare species and extinct species.

Define the following (I to Q):-

- I) What is mariculture
- J) What is equilibrium community?
- (k) What is chaparral?
- (L) What is succession?
- (M) What is Homeostasis?
- (N) What is Wood Land?
- (O) What is population dynamics?
- (P) What is species diversity?
- (Q) What is NGO?

Give your answer in one word only(r to v):-

- (R) Part of mountain above tree line, but below permanent snow.
- (S) Organisms living on or at the bottom of a water body.
- (T) Process of soil development.
- (U) Species content of animals present in any area.
- (V) Amount of organic matter accumulated in the living component of an ecosystem in unit time.

Q.2. What are the characteristic features of brackish water ecosystems? Discuss the importance of transitional communities in estuaries.

Or

Write a detailed account of the ecological succession in nature by giving suitable examples.

Q.3. Discuss different methods of population estimation.

Or

Write an essay on management of endangered species.

Q.4. Give a detailed account of biosphere reserves of India.

Or

Write an essay on environmental adaptations with special reference to aquatic animals.

Q.5. Write short notes on any two of the following:-

- (i) Predation
- (ii) Mimicry
- (iii) Ecological pyramids
- (iv) Bio-safety



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Model Paper B

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Time: 3 Hrs.

Max. Marks: 100

Q.1. Write very short (one or two lines) answers of the following:-

- (i) Arctic Tundra
- (ii) Diel periodicities
- (iii) Protocooperation
- (iv) Ecotypes
- (v) Sampling
- (vi) Net Primary Productivity
- (vii) Immigration
- (viii) An aquarium
- (ix) Stenohaline
- (x) β -biodiversity
- (xi) Balance of Nature
- (xii) Endangered species
- (xiii) Desert National Park
- (xiv) Vital Index
- (xv) Positive acceleration phase of growth
- (xvi) Wild life survey
- (xvii) Ecotourism
- (xviii) Allelopathy
- (xix) Ecolocation
- (xx) Photochemical Smog.

Q.2. Write Short answers of the following:-

- (i) Oceanic Islands
Or
Barrier Islands
- (ii) Symbiosis
Or
Predation
- (iii) Resilience and diversity
Or
Natural restoration
- (iv) Biodiversity concept
Or
Productivity and diversity.

Q.3. Write Short notes on the following:-

(i) Biotic potential

Or

Fertility

(ii) Sampling methods

Or

Aerial survey

(iii) Extinction of species

Or

Management of endangered species

(iv) Osmoregulation

Or

Project tiger

Q.4. What are biomes? Describe the characteristics and biota of Grassland.

Or

Write a detailed note on environmental awareness and education regarding conservation of wildlife.

Q.5. Describe the concept of biodiversity and its conservation methods.

Or

How does a National Park differ from a Sanctuary? Write a note on some important national parks in India.