

MA RURAL DEVELOPMENT
Second Semester
Natural Resource and Environment Management
(MRD- 06)

Duration: 3Hrs.

Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

I. Write short notes on any four of the following :

5x4= 20

1. Different aspects of social forestry.
2. Problems associated with water resources.
3. Measures to overcome Energy Crisis.
4. Energy flow through Food chain and Food web.
5. Wetland Ecosystem.
6. Concept of Carrying capacity.

II. Answer any three of the following:

10x3=30

1. Describe the concept of resource according to Zimmerman.
2. "Land degradation is the main problem of land resources." Discuss some aspects of land degradation in India? Suggest some measures to improve them?
3. Discuss briefly about the concept of sustainable development? What measures have to be followed towards sustainability?
4. What is biogeochemical cycle? Explain whole process of biogeochemical cycle?
5. Discuss about the concept of ecosystem in natural resource management.

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(The figures in the margin indicate full marks for the questions)

Duration: 20 minutes

Marks – 20

(PART A- Objective)

Answer the following question:

1. The major means of irrigation in India are-
a) Canals b) Tanks c) Tube Wells d) Wells
2. Farakka barrage is constructed in-
a) The Swarnarekha river b) The Kosi river
c) The Brahmaputra river d) The Ganga river
3. Farm forestry is developed in
a) Punjab b) Haryana c) Himachal Pradesh d) All the above
4. Which of the following states have 90 percent of coal reserve in India-
a) Orissa and Madhya Pradesh
b) Jharkhand and West Bengal
c) Orissa and West Bengal
d) Madhya Pradesh and Bihar.
5. Ankleshwar petroleum field is located in-
a) Assam b) Gujarat c) Maharashtra d) None of these
6. National Thermal Power cooperation was established in-
a) 1980 b) 1975 c) 1960 d) 1985
7. Bhakra Nangal Hydro power project is located in-
a) Uttar Pradesh b) Punjab c) Rajasthan d) Jammu & Kashmir.
8. Which of the following prominent factor affect the distribution of forest?
a) Rainfall b) Temperature c) Soil types d) None of these.
9. What type of forest are found in Gangetic delta?
a) Coniferous forest b) Deciduous forest c) Sunder forest d) All of these

10. Tropical Wet Evergreen forest are found in
a) Western ghats b) Gujarat c) Madhya Pradesh d) Rajasthan
11. In which of the following region equatorial forest is not found?
a) Amazon basin b) Congo basin
c) Indo- Malaysian region d) Sino- Siberian region
12. Kangaroo are mostly found in-
a) Australia b) Europe c) Asia d) South America
13. The total assemblage of all plants and animals of a given ecosystem or habitat is called-
a) Formation b) Biome c) Mimosa d) Floristic Kingdom
14. Tundra biome is not extended in-
a) Alaska b) Extreme part of Canada
c) Northern Siberia d) Northern Japan
15. The transition zone between two different types of communities is called as-
a) Biome b) Ecotone c) Biological spectrum d) Biological clock
16. The term 'Ecosystem' was first used by-
a) F.R. Fosberg b) A.G. Tansley c) R.L. Lindeman d) E.P. Odum
17. The functioning of ecosystem mainly depends on-
a) Pattern of energy flow b) Nature of land
c) Climatic condition d) Nature of biotic and habitat
18. Bio-gas is –
a) Non renewable energy b) Renewable energy
c) Both d) None of these
19. Ponds is an example of –
a) Artificial ecosystem b) Forest ecosystem
c) Natural ecosystem d) Grassland ecosystem
20. When a big fish eats a small fish which eats water fleas supported by phytoplankton, the water-fleas are-
a) Producer b) Primary consumers
c) Secondary consumers d) Tertiary consumers
