

(6 pages)

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M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2016.

Fourth Semester

Botany

ENVIRONMENTAL BIOLOGY

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which type of food chain starts from living green plants?
 - (a) grazing food chain
 - (b) detritus food chain
 - (c) parasitic food chain
 - (d) all the above.

2. Reed-swamp stage is also known as
 - (a) sedge-meadow stage
 - (b) amphibious stage
 - (c) woodland stage
 - (d) forest stage.
3. Example for renewable resources
 - (a) tree
 - (b) coal
 - (c) iron ore
 - (d) minerals.
4. The chief product of the forests supply is
 - (a) canes
 - (b) gums
 - (c) wood
 - (d) resins.
5. In one of the following years, earth water programme was established to monitor trends in environment
 - (a) 1972
 - (b) 1977
 - (c) 1975
 - (d) 1976.
6. World environment day is
 - (a) July 1st
 - (b) June 3rd
 - (c) June 5th
 - (d) July 2nd.

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7. The frequency of the different genotypes present in the same population is
 (a) richness (b) evenness
 (c) abundance (d) density.
8. RDB stands for
 (a) Red Data Books
 (b) Real Data Book
 (c) Red Data Box
 (d) Real Data Box.
9. Man and Biosphere Programme was started in the year
 (a) 1980 (b) 1999
 (c) 1988 (d) 1975.
10. This type of conservation comes under regeneration of paternal materials
 (a) seed bank
 (b) pollen bank
 (c) field gene bank
 (d) test tube bank.

PART B — (5 × 5 = 25 marks)
 Answer ALL questions, choosing either (a) or (b).
 Each answer should not exceed 250 words.

11. (a) Explain mangrove ecosystem.
 Or
 (b) Give a concise note on xerosere.
12. (a) Write notes on forest resources of Tamil Nadu.
 Or
 (b) Describe the land resources.
13. (a) Explain causes and effects of urbanization.
 Or
 (b) Enumerate environmental education.
14. (a) Write an essay on threatening and extinction of biodiversity.
 Or
 (b) Enumerate the common threatened taxa of India.
15. (a) Briefly explain biosphere reserves.
 Or
 (b) Describe briefly the sacred groves.



PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the followings :

- (i) Energy flow
- (ii) Habitat
- (iii) Niches.

Or

(b) What is succession? Explain causes and patterns of succession.

17. (a) Describe the environmental resources.

Or

(b) Give a detailed note on resource management.

18. (a) Explain remote sensing techniques in assessment and management of environment.

Or

(b) Write an essay on recycling of solid and liquid wastes and waste reuse.

19. (a) Explain in detail about fundamental causes of biodiversity.

Or

(b) Write an essay on Red Data Book.

20. (a) Write an account of *ex-situ* conservation.

Or

(b) Write a detailed note on biodiversity awareness programmes.

