

(6 pages)

Reg. No. :

Code No.: 5381

Sub. Code: PBOM 42

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2022.

Fourth Semester

Botany – Core

PLANT ECOLOGY AND CONSERVATION BIOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Ecosystem has two components

- (a) plants and animals (b) weeds and trees
(c) biotic and abiotic (d) frogs and mentions

2. Ecosystem is

- (a) Both open and closed unit depending upon biomass present
(b) Closed unit
(c) Open unit
(d) Both open and closed unit depending upon community

3. Which one of the following would appear as the pioneer organisms on bare rocks?

- (a) Green algae (b) Lichens
(c) Liverworts (d) Mosses

4. Which is the renewable exhaustible natural energy resource?

- (a) Coal (b) Petroleum
(c) Kerosene (d) Biomass

5. Which of the following is a secondary pollutant?

- (a) Smog (b) Carbon dioxide
(c) Fly Ash (d) Carbon monoxide

6. Which one of the following is not a Natural Disaster?

- (a) Volcano eruption (b) Flood
(c) Tsunami (d) Blow-out

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7. Which of the following has the maximum genetic diversity in India?
- (a) Potato (b) Tea
(c) Mango (d) Teak
8. Which of the following are evidences of Continent Drift Theory?
- (a) Jig Saw Fit matching of the Continent Margins
(b) Placer Deposits of gold in the Ghana coast
(c) Identical Distribution of Fossil in continents
(d) All of the Above
9. Which one of the following biosphere reserve is located in Uttarakhand?
- (a) Kanha (b) Sundarbans
(c) Valley of flowers (d) Kaziranga
10. *Ex situ* conservation of natural resources can be achieved by
- (a) Controlling the native habitat
(b) Inducing mutations
(c) Protecting the wildlife from natural and artificial hazards in the biosphere
(d) Establishing wildlife sanctuaries on large-scale

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Write the scope of Ecology.
Or
(b) Explain the function of ecosystem.
12. (a) Write notes on wind energy.
Or
(b) Write the importance of Environmental education.
13. (a) Explain about the major causes of global warming.
Or
(b) Write the control measures of soil pollution.
14. (a) Explain the cause of biodiversity loss.
Or
(b) Explain the continental drift hypothesis.
15. (a) Give an account on Chipko movement.
Or
(b) Write notes on Gene Bank.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Discuss briefly about various terrestrial ecosystem.

Or

- (b) Explain briefly about the various quadrat method of studying plant community.

17. (a) Describe the process of succession.

Or

- (b) Give an account on non-renewable energy resources.

18. (a) Discuss about the water pollution and its control measures.

Or

- (b) Write an essay on disaster management.

19. (a) Discuss the levels of biodiversity.

Or

- (b) Give an account on Red Data Book.

20. (a) Discuss the various methods of *in situ* conservation of biodiversity.

Or

- (b) Give a brief account on BSI and IUCN.
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