

(6 pages)

Reg. No. :

Code No. : 30379 E Sub. Code : AEBO 64

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023

Sixth Semester

Botany – Major Elective – II

BIO TECHNOLOGY – II

(For those who joined in July 2020 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer

1. It is the layer of air around the earth
(a) Hydrosphere (b) Atmosphere
(c) Lithosphere (d) Ozone
2. The percentage of oxygen in the atmosphere is
(a) 21% (b) 78%
(c) 0.04% (d) 1%

3. RDF is the other name for this
(a) Ethanol (b) Biodiesel
(c) Hydrogen gas (d) Bio gas
4. An example of petroplant is
(a) Salvia viridis
(b) Lobelia
(c) Jatropha curcus
(d) Iris vessicular
5. Soil erosion is caused by
(a) Deforestation
(b) Wind
(c) Excess of rain
(d) All the above
6. Sedimentable waste in the sewage are removed by this technique.
(a) Degradation
(b) Screening
(c) Sedimentation
(d) (b) and (c)

Page 2 Code No. : 30379 E

7. The use of transgenic plants for environmental cleanup is called
(a) Sedimentation
(b) Phytoremediation
(c) Biodegradation
(d) Bioremediation
8. It is an example of hydrocarbon
(a) Calcium (b) Wax
(c) Steam (d) Petrol
9. Main causative gas of global warming is
(a) CH₄ (b) CO₂
(c) CFC (d) All the above
10. Acid rain is caused by
(a) Carbon monoxide
(b) Carbon dioxide
(c) Sulphur dioxide and Nitrogen dioxide
(d) Methane

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write short notes on hydrosphere.

Or

Page 3 Code No. : 30379 E

- (b) List out any five aims of environmental biotechnology.
12. (a) Write short notes on Gobar gas.
Or
(b) Discuss about petro plants.
13. (a) What are trickling filters? Describe them.
Or
(b) Explain sustainable agricultural management.
14. (a) Write about how are pesticides degraded by biodegradation.
Or
(b) Give a brief account on phytoremediation.
15. (a) What are the effects of ozone depletion on human being.
Or
(b) Briefly explain about remote sensing.

Page 4 Code No. : 30379 E
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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) Describe the various biotechnological methods that help to measure pollution.

Or

- (b) Write in detail about biosensors.

17. (a) Explain the microbial production of hydrogen.

Or

- (b) Biofuels are the potential energy resources. Discuss.

18. (a) Give a detailed account on soil conservation.

Or

- (b) Describe water recycling.

19. (a) Write an essay on exsitu bioremediation.

Or

- (b) Discuss about solid waste management.

Page 5 Code No. : 30379 E

20. (a) What is green house effect? How does it take place?

Or

- (b) Write an essay on the causes of acid rain and the measures to control it.

Page 6 Code No. : 30379 E

