

Reg. No. :

Code No. : 10838 E Sub. Code : SEB 05 B

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2020.

Fifth Semester

Botany – Main

ENVIRONMENTAL BIOTECHNOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which system involves the air and around the earth?
(a) Atmosphere (b) Geosphere
(c) Biosphere (d) Hydrosphere
2. Which system involve the rocks and minerals on Earth?
(a) Geosphere (b) Hydrosphere
(c) Biosphere (d) Atmosphere

3. During cracking of Natural Gas, what is product?
(a) Carbon (b) Hydrogen
(c) Both C and H₂ (d) Copper
4. How much percent of biogas normally designed to hold?
(a) 35% (b) 20%
(c) 50% (d) 80%
5. The sludge does not contain waste water from
(a) Bath rooms (b) Wash basins
(c) Kitchen sinks (d) Toilets
6. P^H value of sewage is determined with the help of
(a) Imhoff cone (b) Turbid meter
(c) Potentiometer (d) Planimeter
7. Which process improves efficiency of solid waste management?
(a) Composting (b) Processing
(c) Disposal (d) Collection
8. DDT is used for
(a) Insecticide (b) Herbicide
(c) Pesticide (d) Parasiticide
9. What is the nature of acid rain?
(a) Withstanding (b) Protecting
(c) Corrosive (d) Balancing

10. Which is not green house gas?
- (a) Gasoline (b) Methane
(c) Carbondioxide (d) Water vapour

PART B — ($5 \times 5 = 25$ marks)

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

Each answer should not exceed 250 words.

11. (a) Write the importance of Biosphere.
Or
(b) How is air pollution monitoring?
12. (a) Discuss on different types of Hydrocarbons.
Or
(b) Describe the benefits of biogas.
13. (a) Describe about secondary wastewater treatment.
Or
(b) Explain the activated sludge method.
14. (a) Write a notes on bioleaching.
Or
(b) Discuss about phytoremediation.
15. (a) Describe – Acid rain.
Or
(b) Define ex situ bioremediation.

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 Ambient air pollutants monitoring system.

Or

- (b) Explain the hazards of heavy metal contamination.

17. (a) Write an essay about methanogenesis diversity.

Or

- (b) Euphorbia tirucalli as petroleum plant. Prove it.

18. (a) Explain different methods of soil conservation.

Or

- (b) Ions exchange method – Explain.

19. (a) Compare and contrast on Insecticide and pesticide.

Or

- (b) Explain the advantage and disadvantages of Bioremediation.

20. (a) Describe the global warming and control measures.

Or

- (b) What are Greenhouse Gases? Explain any one.