

B.Voc. DEGREE EXAMINATION, NOVEMBER 2019  
SUSTAINABLE ENERGY MANAGEMENT  
THIRD SEMESTER

COURSE : ALLIED CORE  
PAPER : ENVIRONMENT AND ECOLOGY  
TIME : 3 HOURS

MAX.MARKS:100

SECTION – A

ANSWER ALL QUESTIONS:  
CHOOSE THE CORRECT ANSWER

(30x1=30)

1. In a community, food chains are linked together to form  
a) ecological niche                      b) food niche                      c) food web
2. Hydrophytes may be  
a) partially submerged                      b) fully submerged                      c) free floating
3. Which of these cause the greenhouse effect  
a) Excess of nitrogen in the atmosphere  
b) Excess of carbon dioxide in the atmosphere  
c) Heat from cooking fires of ever-increasing population
4. Thermophilic bacteria refer to  
a) heat producing bacteria                      b) bacteria found in soil                      c) bacteria in thermal units
- 5..Which among the following is the most abundant molecule in the atmosphere ?  
a) CO<sub>2</sub>                      b) Argon                      c) Methane                      d) Water vapour

**FILL IN THE BLANKS:**

6. The amount of organic matter present in plant and animal tissue at a particular place and time is known as -----.
7. EIA stands for -----.
8. The current population of India is -----.
9. The harmful gases released from refrigerators and airconditioning are referred to as -----
10. The obnoxious gases released from burning plastics are called -----.

**DEFINE**

11. Differentiate food chain and food web.
12. What is biomagnification?
13. Name a microbe that can clear oil spills.

14. What gases are released from anaerobic digestion ?
15. Give an example for biofuel.
16. What is the cause for cholera ?
17. Name two alternate sources of energy.
18. What is meant by eutrophication ?
19. What is meant by acid rain ?
20. What are the different forms of water resources?

**STATE WHETHER TRUE OR FALSE**

21. Photosynthesis takes place in the roots.
22. Biogas can be used as fuel for cooking purpose.
23. Earthworms are good decomposers.
24. Tanning process causes water pollution.
25. Mangroves have helped in preventing soil erosion.

**ANSWER IN A LINE OR TWO**

26. Can we reduce noise pollution? How?
27. Give examples of food additives.
28. What is meant by vermicomposting ?
29. What is meant by carbon footprint?
30. When was Environment Protection Act enacted ?

**SECTION – B**

**ANSWER ANY SIX QUESTIONS:**

**(6x5=30)**

31. Describe the causes and control of air pollution.
32. Mention three microorganism types and requirements for growth of bacteria.
33. Outline the assessment of impact of water pollution.
34. Highlight the environmental laws in the Indian context .
35. Write a note on Urbanisation.
36. Is cancer related to environment? Justify with reasons.
37. Give a brief note on Intellectual Property rights.
38. Explain about Community biodiversity registers.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS:**

**(2x20=40)**

39. Discuss about sustainable development in the context of environmental upkeep.
40. Give a detailed account of environmental values, valuing culture and equitable use of resources.
41. Explain food security and environmental impacts of biomass conversion to energy.
42. Elaborate the impact of global warming and climate change in parts of India.

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