

B. M. S. College of Engineering, Bengaluru - 560019

Autonomous Institute Affiliated to VTU

October 2022 Semester End Main Examinations

Programme: B.E.

Branch: Common to all Branches

Course Code: 21HS4ICEVS

Course: Environmental Studies

Semester: IV

Duration: 1 Hr. 30 Min.

Max Marks: 50

Date: 21.10.2022

Instructions:

1. Part- A is compulsory. Answer any THREE full questions from part-B.
2. Missing data may be assumed suitably.

PART - A

20x1=20

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

- 1 Troposphere mainly consists of:
a) CO₂ b) H₂ c) O₂ d) O₂ and N₂
- 2 Phytoplankton in an aquatic system can be considered as a:
a) Macro consumer b) Consumer c) Producer d) Organism
- 3 From the past 50 years, the environment has been experiencing enormous stress due to
a) Climate change b) Deforestation c) Species loss d) All
- 4 Green revolution crop varieties yield increase depend on the use of
a) Inorganic fertilizers b) Pesticides c) Energy d) All
- 5 The primary cause of acid rain around the world is
(a) Carbon dioxide (b) Sulphur dioxide
(c) Carbon monoxide (d) Ozone
- 6 Which of the following statement about forest is incorrect.
a) provides recreational opportunities
b) provides a source of economic development
c) reduces soil erosion
d) none of the above
- 7 Important phases of the hydrologic cycle is
a) Evaporation b) Precipitation c) both a) and b) d) None
- 8 What is the limitation of solar energy
a) cost of conversion is very high b) storage of energy is essential
c) energy density is low d) all
- 9 Mineral resources are
a) Renewable b) Nonrenewable c) Equally distributed d) None of the above
- 10 Hydrological cycle is related to
a) Water and electricity b) Water Cycle and balance
c) Water characterization d) Hydropower
- 11 Which of the following are the byproducts of burning of wood, coal and fossil fuels.
a) CO b) NO_x c) SO₂ d) All

- 12 Haemoglobin of the blood forms carboxy – haemoglobin with
a) CO₂ b) SO₂ c) NO₂ d) CO
- 13 Bhopal Gas Tragedy occurred in the year 1984 was due to
a) Methyl Isocyanate b) Mercury c) Arsenic d) Lead
- 14 The major cause of soil pollution is due to
a) Chemical fertilizers and pesticides from agricultural lands
b) Improper solid waste disposal
c) Accidental spillage of waste materials
d) All of the above
- 15 Nitrate concentration more than 45 mg/L leads to a disease called
a) Gastroenteritis b) Methemoglobinemia
c) Typhoid d) None
- 16 The primary cause of acid rain is due to
a) SO₂ b) O₃ c) CO₂ d) CO
- 17 The international protocol to protect the ozone layer is
a) Kyoto protocol b) Basal protocol
c) Montreal protocol d) Vienna protocol
- 18 SDG 6 in sustainable development goals covers
a) Life on Land b) Clean water and sanitation
c) Good health and well-being d) Reduced inequalities
- 19 World Environmental Day is celebrated on
a) June 5 b) August 15 c) December 5 d) March 22
- 20 The constitution of India makes provisions for Environmental Protection in the chapters on
a) Fundamental rights b) Directive principles of state policy
c) Fundamental duties d) All

PART -B

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| 1 | a) Describe the components of environment and their major interactions. | 06 |
| | b) Explain structure and function of an Ecosystem | 04 |
| 2 | a) Distinguish between water borne and water induced diseases with suitable examples. | 05 |
| | b) Justify the necessity of developing non-conventional sources of energy | 05 |
| 3 | a) What is eutrophication? Describe the effect of eutrophication. | 05 |
| | b) What is sanitary landfill? Explain with a neat diagram. | 05 |
| 4 | a) Why is carbon dioxide called greenhouse gas and list other greenhouse gases and its effects. | 05 |
| | b) Discuss the constitutional provision in India for environmental protection. | 05 |
