

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

Autonomous Institute Affiliated to VTU

September / October 2023 Semester End Main Examinations

Programme: B.E.

Semester: IV

Branch: Common to all Branches

Duration: 01 hr 30 mins.

Course Code: 22CV4HSEVS

Max Marks: 50

Course: Environmental Studies

Instructions: 1. PART A is compulsory. Answer any **THREE** full questions from PART B
 2. Missing data, if any, may be suitably assumed.

PART A			CO	PO	Marks
1	1	Which of the following conceptual components of the environment are effective transporters of matter? a) Atmosphere and hydrosphere b) Atmosphere and lithosphere c) Hydrosphere and lithosphere d)Lithosphere and biosphere	CO1	PO1	1
	2	The layer Ozone is present in a) Stratosphere b) Mesosphere c) Ionosphere d)Thermosphere	CO1	PO1	1
	3	Study of inter-relationship between organisms and their environment is called a)Ecology b) Ecosystem c) Phytogeography d) Ethology	CO2	PO2	1
	4	An example of an abiotic component a) Plants b) Soil c) Animals d)Bacteria	CO2	PO1	1
	5	Weather occurs in the Earth's a) Troposphere b) Mesosphere c) Ionosphere d)Thermosphere	CO3	PO1	1
	6	Which of the following effect is responsible for Global Warming? a) Greenhouse effect b) Radioactive effect c) Solar effect d) Nuclear effect	CO3	PO1	1
	7	Which gas is responsible for the global warming? a) Nitrogen b) Carbon dioxide c) Noble gases d) Hydrogen	CO3	PO1	1
	8	What is the major limiting factor in the arid areas of our country? a) Money b) forests c) water d) Soil	CO3	PO1	1
	9	EIA is the a) Economic Information Awareness b) Environmental Information Awareness	CO3	PO1	1

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.

		c) Environmental Impact Assessment d) Environmental Impact Avoidance		
10	Energy from the heat inside the earth is	CO3 PO1 a) Natural gas b) Geothermal c) Petroleum d) Terrathermal		1
11	The resources that can be replaced by natural ecological cycle is called	CO3 PO1 a) Renewable b) Non-renewable c) exhaustible d) natural		1
12	Fossil fuel and metallic minerals are:	CO3 PO1 a) Renewable resource b) Inexhaustible resources c) Non-renewable resources d) None of these		1
13	Soil pollution is caused by _____	CO3 PO1 a) Industrial Wastes b) Detergents c) Agrochemicals d) All of these		1
14	Air pollution from automobiles can be controlled by fitting	CO3 PO1 a) Electrostatic precipitator b) wet scrubber c) Catalytic converter d) All the above.		1
15	Aquatic life is damaged by	CO3 PO1 a) Sound pollution b) Air Pollution c) Thermal pollution d)All of these		1
16	Ozone depletion is mostly caused by	CO3 PO1 a) CO ₂ b) CCl ₄ c) CFCs d)CO		1
17	Yellowing of Taj Mahal is an effect of	CO3 PO1 a) Acid rain b) Global warming c) Ozone depletion d) All of the above		1
18	Which of the following is not a solution for Global worming?	CO3 PO1 a) Reducing fossil fuel consumption b) Plantation of more Trees c) Deforestation d) None of the above		1
19	Environmental education is targeted to	CO3 PO1 a) General public b) Technicians and scientists c) Professional social groups d) All of these		1
20	Environmental education is important only at	CO3 PO1 a) Primary school stage b) Secondary school stage c) Collage stage d) All stages		1
	PART B (Answer any three full questions from the following)	COs	POs	Marks
1	a) With suitable sketch, explain the structure of the Atmosphere.	CO1	PO1	4
	b) Describe the characteristics of balanced ecosystem	CO1	PO1	4
	c) Define Ecology and Ecosystem	CO1	PO1	2
2	a) Discuss the effects of human activities on Environment	CO1	PO1	3
	b) List and explain the significance of Environmental Impact Assessment	CO1	PO1	4

	c	Write a note on sustainable development	CO1	PO1	3
3	a	Explain the sources of Land Pollution	CO2	PO1	3
	b	Discuss the mitigation measures of air pollution	CO2	PO1	3
	c	Write a note on Solid waste management	CO2	PO1	4
4	a	Discuss the effects of Climate Change	CO5	PO1	3
	b	Explain the causes for Global warming	CO5	PO1	3
	c	Enumerate the significance of Environmental education	CO5	PO1	4