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

Autonomous Institute Affiliated to VTU

## September / October 2023 Semester End Main Examinations

Programme: B.E.

Branch: Common to all Branches

Course Code: 22CV4HSEVS

Course: Environmental Studies

Semester: IV

Duration: 01 hr 30 mins.

Max Marks: 50

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

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.			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

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

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