

U.S.N.

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

Autonomous Institute Affiliated to VTU

July 2023 Semester End Main Examinations**Programme: B.E.****Branch: Institutional Elective****Course Code: 20CV6OEGWC****Course: Global Warming and Climate change****Semester: VI****Duration: 3 hrs.****Max Marks: 100****Date: 07.07.2023**

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
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.			UNIT - I	CO	PO	Marks
	1	a)	Explain greenhouse effect and discuss the causes and effect of green house gases.	CO1	PO1	10
		b)	Elucidate the anthropogenic process of ozone depletion in the atmosphere with a sketch.	CO1	PO1	10
			OR			
	2	a)	Discuss the impacts of ozone layer depletion on humans, animals and biotic community.	CO1	PO1	10
		b)	Elucidate carbon cycle and hydrological cycle.	CO1	PO1	10
			UNIT - II			
	3	a)	Elucidate the vertical temperature profile of the atmosphere with a neat sketch.	CO1	PO1	10
		b)	Illustrate with a neat sketch the different types of inversion and discuss impact of inversion on dispersion of air pollutants.	CO1	PO1	10
			UNIT - III			
	4	a)	Define climate change and elucidate impacts of climate change on human settlements in urban, rural and coastal areas.	CO2	PO1	10
		b)	Explain the effect of climate change on agricultural productivity.	CO2	PO1	10
			UNIT - IV			
	5	a)	Discuss the flexibility mechanisms under the Kyoto protocol.	CO2	PO1	10
		b)	Explicate the salient features of the Montreal protocol and discuss whether montreal protocol is considered a success or a failure.	CO3	PO1	10

			UNIT - V			
	6	a)	Describe carbon sequestration and explain different carbon sequestration techniques.	<i>CO3</i>	<i>PO1</i>	10
		b)	Elucidate various project categories considered under clean development mechanisms with examples.	<i>CO3</i>	<i>PO1</i>	10
			OR			
	7	a)	Explain the dramatic scenario observed in Love canal tragedy.	<i>CO3</i>	<i>PO1</i>	10
		b)	Explain alternate energy sources and discuss the advantages and limitations of harnessing solar and wind energy.	<i>CO3</i>	<i>PO1</i>	10

B.M.S.C.E. - EVEN SEM 2022-23