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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.

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

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

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