U.S.N.										

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

Autonomous Institute Affiliated to VTU

August 2024 Supplementary Examinations

Programme: B.E. **Semester: VI**
Branch: Institutional Elective **Duration: 3 hrs.**
Course Code: 20CV6OEGWC **Max Marks: 100**
Course: Global Warming and Climate Change

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

1	a)	Explain carbon cycle with neat diagram.		**05**
	b)	Discuss the formation of ozone with equations.		**05**
	c)	Discuss greenhouse effect and explain various gases responsible for Greenhouse effect.		**10**
		OR		
2	a)	Explain Hydrological cycle with neat diagram.		**05**
	b)	Justify the statement "radiation and greenhouse effect made earth inhabitable."		**05**
	c)	Explain briefly the effects of ozone depletion.		**10**

UNIT - II

3	a)	Explain with sketches, different lapse rates and temperature inversion **related** to the atmosphere.		**10**
	b)	Explain the vertical structure or profile of the atmosphere with a neat sketch.		**10**

UNIT - III

4	a)	Discuss the influence of climate change, which has caused floods in many parts of the country leading large scale devastations.		**10**
	b)	Explain the impact of climate change on agriculture and forestry.		**10**

UNIT - IV

5	a)	Discuss the salient features of Montreal protocol and IPCC on global warming.		**10**
	b)	Articulate the trade relation between developing and developed countries to earn carbon credits through Kyoto Protocol.		**10**

UNIT - V

6	a)	Discuss possible way of achieving sustainable development through Clean Development Mechanism.	**10**
	b)	Highlight the necessity of switching over Renewable energy resources. Explain in detail the process of achieving Natural Compost as an efficient Alternate Energy.	**10**

OR

7	a)	Describe carbon sequestration and explain various methods for carbon capture and storage.	**10**
	b)	Explain the advantages and disadvantages of harnessing the solar energy and wind energy.	**10**

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