Reg. No				

B.Tech/M.Tech(Integrated) DEGREE EXAMINATION, DECEMBER 2023

Fifth Semester

21CEO310T - GLOBAL WARMING AND CLIMATE CHANGE

(For the candidates admitted during the academic year 2022-2023 onwards)

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
 ii. Part - B and Part - C should be answered in answer booklet.

Time	Time: 3 Hours PART - A (20 × 1 = 20 Marks) Answer all Questions			Max. Marks: 75				
				Marks BL				
1.	Identify the climate system component, w (A) Atmosphere (C) Lithosphere	(B) Biosphere (D) Cryosphere	1	1	1			
2.	Which of the following determines amount (A) Clouds (C) Gas	nt of water vapour in the atmosphere? (B) Humidity (D) Solar radiation	1	1	1			
3.	Identify the type of rainfall, which frequence (A) Relief (C) Frontal	ntly occurs near mountains beside the sea? (B) Convectional (D) Snow	1	2	1			
4.	Gravity pulls to the gas molecules in twhich causes (A) Radiation increases (C) Air pressure decreases	he atmosphere toward the Earth's surface (B) Air pressure increases (D) Radiation decreases	1	2	2			
5.	Wind blowing across the ocean surface place the water the (A) Upwelling (C) Surface current	oush water away. Water then rises up from at was pushed away. The process is (B) Downwelling (D) Horizontal current	1	1	1			
6.	Frontal inversion is (A) Sea breeze (C) Cold air blowing in under warmer air	(B) Land breeze (D) Ozone protection	1	2	2			
7.	A stable atmosphere is (A) Encourages vertical motion (C) Discourages horizontal motion	(B) Discourages vertical motion(D) Encourages horizontal motion	1	2	2			
8.	Lapse rate decreases /km with it (A) 12.5°C (C) 10.5°C	increasing altitude (B) 16.5°C (D) 6.5°C	1	3	2			
9.	The combined effect of and for crop growth and also less runoff in reg (A) less rainfall & more evaporation (C) less evaporation & more rainfall	means less soil moisture available gions with marginal rainfall. (B) more rainfall &less evaporation (D) more evaporation & less rainfall	. 1	2	3			
10.	From the following which has the pH value (A) Distilled water (C) Sea water	ue of 8.1. (B) Acid rain (D) Liquid rain	1	2	3			

11.	Sea level rise is apparent in locations tapparent in locations subject to		1	2	3
	(A) Sediment covers (C) Temperature change	(B) Industrial zones (D) Geologic uplift			
12.	The instrument measures relative (A) Barometer (C) Pedometer	e humidity (B) Thermometer (D) Hygrometer	1	3	4
13.	The First Assessment Report (FAR) of the (A) 1993 (C) 1995	IPCC was completed in (B) 1990 (D) 1996	1	1	4
14.	Which of the following remains the most forcing of climate change? (A) Nitrous Oxide (C) Oxygen	(B) Methane (D) Carbon dioxide	1	2	4
15.	Identify the psychosocial environmental he (A) Fungal infection (C) Depression	ealth issues. (B) Yellow fever (D) Leukemia	1	3	5
16.	Which is not the manmade source of CO ₂ e (A) Soil cultivation (C) Decomposition	emission (B) Transportation (D) Biomass burning	1	2	5
17.	Tropical deforestation is responsible for emissions (A) 30 (C) 35	(B) 20 (D) 40	1	3	5
18.	Bio medical waste contain perce (A) 10-25% (C) 75-90%	entage of non hazardous wastes (B) 25-50% (D) 50-75%	1	2	5
19.	Identify the manmade sources of Carbon so (A) Volcanoes (C) Decomposition	equestration. (B) Wild fires (D) Biomass burning	1	3	5
20.	Biodiesel is made through a chemical proc Origin into (A) Citric acid Ethyl esters (C) Fatty acid methyl esters	(B) Citric acid methyl esters (D) Fatty acid Ethyl esters	1	2	5
	PART - B (5 × 8 = 40 Marks) Answer all Questions			is BL	СО
21.		PR)	8	1	1
22.	(b) List out the different strata of atmosp (a) Explain in brief about the frontal inv (O)		8	2	2
23.			8	2	3
24.	(b) Write a short note on polar ice melti(a) List out the objectives and functions	of UNDP?	8	3	4
	(b) Discuss on the impact of climate c	DR) hange on tourism?			

25.	(a) Compare Kyoto protocol and Montreal protocol (OR) (b) What are the benefits of green buildings? Explain		8	2	5
PART - C (1 × 15 = 15 Marks) Answer any 1 Questions				ks BL	CC
26.	Discuss the impact of temperature changes on marine species and ecosystems?		15	3	3
	Explain in detail about climate change Mitigation and Adaptation in India.		15	3	3
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