Reg. No						

B.Tech DEGREE EXAMINATION, DECEMBER 2023

Fourth to Seventh Semester

18CEO406T - GLOBAL WARMING AND CLIMATE CHANGE

(For the candidates admitted during the academic year (2020-2021 & 2021-20222))

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: 3 Hours				Max. Marks: 100				
	PART - A (20 > Answer all	(1 = 20 Marks) Questions	Mark	s BL	CO			
1.	sustain on earth.	components that are all necessary for life to	1	1	6			
	(A) 2 (C) 4	(B) 3 (D) 5						
2.	In the hydrologic cycle, snow, hair	l, sleet, and freezing rain are the forms of	1	1	-5			
	(A) Evaporation (C) Infiltration	(B) Precipitation(D) Surface run-off						
3.	Without the Earth's atmosphere, the below the temperate (A) Boiling	e Earth's average temperature would be well ure of water. (B) Freezing	1	2	3			
	(C) Vaporization	(D) Boiling and Freezing						
4.	metals is	or smog formation, acid rain and corrosion of	1	2	3			
	(A) Nitrogen oxide(C) Chloride	(B) Oxygen (D) Carbon Di Oxide						
5.	Wind circulation deflected by (A) Gravity (C) Centrifugal Force	(B) Coriolis force (D) Friction	1	1	3			
6.	Climate can be defined as (A) Long-term changes in the atmosphere	(B) Short-term changes in the atmosphere	l, a	2	4			
	(C) Long-term changes in earth	(D) Short-term changes in the earth	,	2	4			
7.	Which nutrient deficit causes acid d (A) Aluminium (C) Sulphur	leposits on soil ? (B) Calcium (D) Nitrogen	•	2	4			
8.	NCEI stands for (A) National Centre for Environment Information (C) National Centre for Evergreen information	tal (B) National Centre for Earth information (D) National Centre for Existing information	1	1	5			
9.	Global warming is accelerated due to (A) More sea Ice (C) Less sea ice	(B) Moderate sea ice (D) Manageable sea ice	1	1	4			

10	. Albedo is measured in scale from		1	2	5
	(A) 4.0 to 3.0 (C) 2.0 to 1.0	(B) 3.0 to 2.0 (D) 0.0 - 1.0			
11.	An instrument that measures relative humi (A) Anemometer (C) Hygrometer	dity is called (B) Barometer (D) Thermometer	1	1	4
12.	Sectors affected by climate change (A) Political (C) Air resources	(B) Ecosystem (D) Institutions	1	2	4
13.	Identify the type of disease, which is cause (A) Animal borne (C) Food borne	d due to changes in air temperature? (B) Water borne (D) Vector-Borne	1	1	5
14.	Climate change mitigation involves (A) Increases emission (C) decreases greenhouse gas level	(B) increases greenhouse gas level(D) Stabilize greenhouse gas level	1	2	6
15.	EPA was framed by (A) Indian government (C) Japan government	(B) Pakistan government (D) U.S. government	1	2	6
16.	Under the IPCC business as usual emiss mean sea level rise in 2030 is about (A) 10cm (C) 30cm	ions scenario, a predicted rate of global (B) 20cm (D) 40cm	1	2	4
17.	Which of the following type of energy sor period of time? (A) Fossil fuels (C) Solar Energy		1	2	6
18.	Identify the type of energy source, which is be replaced by nature? (A) Wind Energy (C) Solar Energy	. 03		2	5
19.	Following is the list of natural Green buildi (A) Steel, brick, Fibre (C) Earthen Materials, Wood, Bamboo	ng materials used in construction are, (B) Cement Concrete and steel (D) Polyurethane, Fiber Glass, Cellulose, Cork	1	2	6
20.	During the energy audit of a building, the form (A) Check heating and cooling system—Inspect electric Insulation- Account for Electricity Waste		1	5	5 .
	(C) improving heating and cooling system- de-insulation- Account for Electricity Waste	(D) improving heating and cooling system- de-insulation- Account for Electricity Waste	•		
	PART - B (5 × 4 = 20 Marks) Answer any 5 Questions				CO
21.	Write short notes on the atmosphere and its	composition.	4	2	1
22.				2	2
23.	3. Explain briefly about the climate change feedback.			2	3
24.	4. Write short notes on the World Metrological Organization.			4	4

25.	Write a short essay on renewable energy.	4	2	5
26.	Define atmospheric humidity	4	2	1
27.	What is biomedical waste? Give example.	4	2	3
	PART - C (5 × 12 = 60 Marks) Answer all Questions	Marl	as BL	CO
28.	(a) Describe the essential points to be considered for the impact of global warming. (OR)	12	2	1
	(b) Give a detailed account of the importance of the earth's system and climate.			
29.	(a) Explain about the Milankovitch theory and climate. (OR)	12	2	2
	(b) Elaborate details on the Indian climate system.			•
30.	(a) Explain about the climate change impacts on various sectors. (OR)	12	2	3
	(b) Explain on the primary instruments and methods used to measure key weather and climate parameters.			
31.	(a) Define climate change mitigation and adaptation. Explain how they differ in their approach to addressing climate change. (OR)	12	2	4
	(b) Discuss the role of the United Nations Framework Convention on Climate Change (UNFCCC) in establishing international protocols on climate. How does the UNFCCC facilitate cooperation among nations to address climate change?			
32.	(a) Define renewable resources and provide three examples. Explain why these resources are considered renewable.	12	2	5
	(OR)			
	(b) Give a detailed account of green building technology.			

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