Reg. No.						

## **B.Tech. DEGREE EXAMINATION, MAY 2024**

Fourth to Seventh Semester

## 18CEO406T – GLOBAL WARMING AND CLIMATE CHANGE

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

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- Part A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over (i) to hall invigilator at the end of 40th minute

(ii)	Part - B & Part - C should be answere	ed in a	nswer booklet.				•
Time: 3 l	nours		ı	Max. ]	Mar	ks:	100
	PART – A (20 × 1			Marks	BL	co	PO
1	Answer ALL	Quesi	ions	v			
1.	The biosphere consist of conto sustain on earth.	ompo	nents that are all necessary for life	1	1	1	1
	(A) 3	(D)					
	(C) 4	` '	) 2				
	(C) +	$(\mathbf{D})$	) 5				
	Which one of the following comglaciers, sea ice and permafrost?	ponei	nt of climate system specify the	1_	2	5	1
	(A) Atmosphere	(B)	Cryosphere				
	(C) Biosphere	(D)	Lithosphere				
8	Which of the following determine atmosphere?	s the	amount of water vapour in the	1	1	2	1
	A) Clouds	(B)	Gas				
(	C) Temperature	(D)	Humidity				
- (	The industrial emission of green hou  A) Brown carbon  C) Green carbon	(B)	ses are classified under  Blue carbon Yellow carbon	1	2	3	1
5. (	limate can be defined as			1	2	4	1,6
	atmosphere	(B)	Short term changes in atmosphere				
(	C) Long term changes in earth	(D)	Short term changes in earth				
6 т	mode winds to a / 1'						
	rade winds located in	(D)		1	2	1	1,7
	A) Equator C) South pole	(B)	Temperature				
(	2) South pole	(D)	North pole				
7. P	aleoclimate can be interpreted from			1	1	4	1.7
	A) Formulae	(B)	Derivations		1	4	1,7
((		(D)	Proxies				
	-,	(D)	TIONICS				
8. G	lobal warming is accelerated due to			1	1	5	1,7
	A) More sea ice	(B)	Moderate sea ice				
((	C) Less sea ice	(D)	Manageable sea ice				
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0	Acid deposits on soil causes which nutrient deficit?	1	2	5	2
۳,	(A) Calcium (B) Aluminium				-
	(C) Sulphur (D) Nitrogen				
	(c) Bulphu				
10	The value of pH is 8.1 for	1	1	4,5	1
10.	(A) Distilled water (B) Sea water				
	(C) Acid rain (D) Liquid paint				
			,	_	2
11.	Identify the type of disease which caused due to change in temperature?	1	1	5	2
	(A) Water borne (B) Food borne				
	(C) Vector borne (D) Animal borne				
		1	2	4,5	2
12.	An instrument which measures relative humidity is called	1	2	4,5	4
	(A) Hygrometer (B) Anemometer				
	(C) Barometer (D) Thermometer				
		,	2	5	1,7
13.	The goal of climate change adaption is to	1	2	3	1,7
	(A) Reduce harmful effects of (B) Increase harmful effects of				
	climate change climate change				
	(C) Stabilize harmful effects of (D) Neutralize harmful effects of				
	climate change climate change				
	- P		-,	2.2	1 6 7
14	. The United Nations framework convention on climate change is also known	1	- 1	2,3	1,6,7
	as				
	(A) Earth summit (B) Vienna convention				
	(C) Rio convention (D) Kyto protocol				
				,	1.7
15	. EPA was framed by	1	1	6	1,7
10	(A) Government of India (B) Government of USA				
	(C) Government of Japan (D) Government of China				
			,	1.2	67
16	5. Sea level rise in 2030 is about	1	1	1,3	6,7
	(A) 10 cm (B) 30 cm				
	(C) 20 cm (D) 40 cm				
				2.4	67
17	7. Future prospective of removable energy resources in India having more	1	I	2,4	6,7
	scope in				
	(A) Solar (B) Wind				
	(C) Tidal (D) Bio				-
15	8. During the energy audit of a building, the following basic steps are	1	2	5	1,7
10	considered				
	(A) Check heating and cooling system - inspect electric installation-				
	account for electric waste				
	(B) Check only heating system - inspect electric insulation - account for				
	electric waste				
	(C) Improving heating and cooling system - deinstallation - account for				ū
	electric waste				
	(D) Decease the heating - uninstall -check				

19	What is the main element in fossil fuel?		1	2	5	6&7	
		3) Oxygen					
		O) Nitrogen					
		, , , , , , , , , , , , , , , , , , , ,					
20	. IREDA has been awarded (categorium New and Renewable Energy.	ory-I) status in 2015 by Ministry of	1	1	5	6&7	
		3) Global energy					
		b) Bharat Ratna					
	(c) Boot tellewable onergy	) Dianat Rama					
	$PART - B (5 \times 4)$	= 20 Marks)	Marks	BL	со	PO	
	Answer ANY FIV						
		2 Questions					
21.	. Explain about the global warming and it	s impact.	4	1	1	1,7	
22	. List the types of climatology proxies and	l evoluin any two of them	4	1	2	1,7	
<i></i> ,	. List are types of chinatology proxics and	explain any two of them.			5.	-,.	
23.	. State the important gases in the earth atm	nosphere.	4	1	3	1,6	
	8						
24.	. Write short notes on Kyoto protocol.		4	2	4	1,7	
25.	. Write the concept of sustainable develop	ment.	4	2	5	6,7	
26.	. Explain briefly on the green house gas an	nd its effect.	4	2	3	1,7	
0.7	****				_		
27.	Write about carbon sequestration.		4	1	5	6,7	
	$PART - C (5 \times 12 = 60)$	Marks)	Marks	BL	co	PO	
	Answer ALL Quest	· ·					
28. a.	Explain in detail about the atmosphere of with neat sketch.	composition and its different strata	12	1	1	1,7	
	(OR)				-		
h	Explain in detail on hydrological cycle w	with neat sketch	12	2	1	1,6	
0.	Explain in dean on hydrological cycle w	Thi ficat Sketch.				-,-	
29. a.	Describe the classification of climatic rea	gion of India	12	1	2	1,6	
		5-0-1 01 1111111					
	(OR)						
b.	Explain about Milankovitch theory on cl	imate change.	12	1	2	6,7	
30. a.	Explain the process of climate change im	pact in different sectors.	12	2	3	1,7	
	(OR)						
b.	Write short notes on the following		_				
	(i) Rain gauge		6	1	3	1,6	
	(ii) Climate feedback	**	6	1	3	1,7	
2.1	Department of the CTT to 127 to	6 1	10	1	A	1.6	
31. a.	Describe the action plan of United Nation	rame work convention on climate	12	1	4	1,6	
	change						
	change. (OR)						

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b. Discuss in detail on the intragovernmental panel on climate change.			4	1,7
32. a. Explain in detail about  (i) Wind energy  (ii) Tidal energy	6 6	2	5	1,7 6,7
(OR) b. Explain the clean development mechanics and its project cycle.	12	2	5	1,7

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