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Reg. No.								
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B.Tech. DEGREE EXAMINATION, MAY 2023

Fourth to Seventh Semester

				MING AND CLIMATE CHANGE academic year 2018-2019 to 2021-202	!2)			
Note:	n	4	D =14	within first 40 minutes and OMP show	at chou	ld ha	han	ded
(i)		t - A should be answered in OMI r to hall invigilator at the end of 40		within first 40 minutes and OMR shee	a shou	iu ve	пап	ueu
(ii)		t - B & Part - C should be answer						
Time: 3	hour	S		N	Iax. M	larks	:: 10	0
77		PART – A (20 × Answer ALL			Marks	BL	со	PO
1	TX 7;+1			erage temperature would be below	. 1	1	2	3
1,,	44 1L	temperature of water.	arur av	erage temperature would be below				
	(A)	Boiling	(B)	Freezing				
		Vaporization	` ,	Melting				
	(C)	v aportzation	(D)	Wiching				
2	The	Ei-Nino phenomenon occurs in	n		1	1	2	1
۷.		Atlantic ocean		Pacific ocean				
	` '	Indian ocean	. ,	Arctic ocean				
	(C)	mulan ocean	(D)	Arctic occan				
3.		an temperature increases more er effective of the oce		than land temperature because of	1	2	1	2
	_	Heat capacity		Heat balance				
		Heat transfer	` /	Heat exchanger				
4.	syste	em.		rise in the of earth climate	, 1	3	1	2
		Maximum temperature						
	(C)	Average temperature	(D)	Temperature				
5	Follo	owing is the important Kyoto n	nechani	ism.	1	3	2	1
				Clean development mechanism				
		Both (A) and (B)		Life cycle development				
	(-)		` '					
6.	Carl	on dioxide contributes	perce	ent to global warming.	1	2	1	2
		10-15%		20-25%				
	` /	30-35%	(D)	40-45%				
	()		,					
7.	Whe	en did chlorofluorocarbon inver	nt		1	3	2	1
	(A)	In late 1950s	(B)	In late 1930s				
	. /	In late 1920s		In late 1940s				
0	In ~	inlight hits the namel of	f color o	pells	1	3	1	1
0.		inlight hits the panel of		Photons				
	` '	Dust	` ,	Protons				
	(C)	Electrons	(\mathbf{D})	1 1010113				

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9.	Higher CO ₂ concentration stimulates (A) Photosynthesis	(B)	Evaporation	1	2	1	1
	(C) Transpiration	(D)	Infiltration				
10.	Snow covered surfaces having			1	3	2	2
	(A) High albedo level	(B)	Low albedo level				
	(C) Medium albedo level	(D)	No albedo level				
11.	An atom is surrounded by			1	2	1	2
	(A) Nucleus		Neutrons				
	(C) Protons	(D)	Electrons				
12.	Hydroelectric schemes supplying about	ut 6%	% of worlds	1	1	1	2
	(A) Industrial energy	(B)	Commercial energy				
	(C) Residential energy	(D)	Space energy				
13.	Methane is considered to be effective			1	2	1	1
	(A) Pollutant	. ,	Greenhouse gas				
	(C) Element	(D)	Waste energy				
14.	Each year precipitations of weather,	exp	ected to rise in the northern high	1	3	1	1
	latitudes in	(7)					
	(A) Winter		Spring				
	(C) Summer	(D)	Autumn				
15.	Evaporation occurs through			1	2	1	2
	(A) Plants	(B)	Leaves of plants				
	(C) Stems	(D)	Flowers				
16.	The carbon intensity of natural gas is	25%	less than	1	3	1	2
	(A) Oil						
	(C) Liquid	(D)	Nitrogen				
17.	The purpose of dykes and coastal dine			1	3	1	2
	(A) Heat	` ′	Sea				
	(C) Wind	(D)	Water waves				
18.	Rio summit conference focused on	(D)		1	2	1	2
	(A) Social equity		Environmental and development				
	(C) Economic development	(D)	Education and health				
19.	The global water cycle is a basic com	•		1	3	1	2
	(A) Country (C) Global avertam		Climate system				
	(C) Global system	(D)	Area zone				
20.	Anthropogenic effects are human cau	sed s	uch as	1	2	1	2
	(A) Burning of fossil fuels	(B)	Volcanic eruption				
	(C) Earthquake	(D)	Avalgches				

	PART – B ($5 \times 4 = 20$ Marks) Answer ANY FIVE Questions	Marks	BL	СО	PC
21.	Draw and state the layers of atmosphere.	4	1	2	1
22.	Define radiation.	4	1	3	1
23.	Name the gases (or) composition of the atmosphere.	4	1	5	1
24.	Define the earth tilt.	4	1	2	1
25.	Write short notes on Kyoto protocol.	4	1	2	1
26.	What are the biomedical waste?	4	1	2	1
27.	State the highlights of Indian wind energy association.	4	3	1	2
	PART – C (5 × 12 = 60 Marks) Answer ALL Questions	Marks	BL	со	PC
28. a.	Write down the molecular formation of ozone layer.	12	3	1	4
b.	(OR) Describe the important points to be considered for impact of global warming.	12	2	1	4
29. a.	How greenhouses gases affect the atmospheric condition and what are its effect?	12	2	2	1
	(OR)				
b.	Explain how electromagnetic radiation, electromagnetic spectrum, convection plays a major role in atmospheric condition.	12	2	2	I
30. a.	Elaborate the importance of understanding atmospheric stability.	12	1	1	2
ь.	(OR) Write the effects of climate change in agriculture, forestry sector and its causes.	12	1	2	1
31. a.	Write short notes on (i) Continental plates, with respect to volcanoe (ii) Ocean currents	6	3	1	1
b.	(OR) Explain about short lived and long lived climate forcers and its effects in direction.	12	2	1	1
32. a.i.	Eco friendly plastics types and reusability in today world, discuss.	6	2	1	1
ii.	How municipal solid waste are classified?	6	2	2	1
_	(OR)				
b.	Explain the clean development mechanism and its project cycle with flow chart.	12	3	2	1
