CVM UNIVERSITY

M.Sc. (Environmental Science & Technology) Semester – I (Examination – 2021) Wednesday, 24 February - 2021

2.00 PM to 4.00 PM

101350102: Air Pollution and Climate Change

Total Marks: 60

Q.1. (a)	Multiple Choice Questions		
1.	Biological hazards are of organic origin or conveyed by vectors.		
	(a) Biological (b) Chemical (c) Physical (d) None	e	
2.	Climate is the average of years' weather observations.		
	(a) 20 (b) $\overline{25}$ (c) 30 (d) None	e	
3.	Dyspnea is difficulty in		
	(a) Inhalation (b) Exhalation (c) a & b (d) None	e	
4.	Excess inhalation of suppresses immune system.		
	(a) SOx (b) PM (c) NOx (d) Non-		
5.	Geological or geophysical hazards originate from internal proces	ses.	
	(a) Farth (b) Moon (c) Solar (d) Non	e	
6.	Lower atmosphere is also known as		
	(a) Exosphere (b) Troposphere (c) Stratosphere (d) Non	e	
7.	Troposphere constitutes% of mass of atmosphere.		
	(a) 60 (b) 70 (c) 80 (d) Non	e	
8.	Xeroderma affects .		
	Xeroderma affects (a) Nose (b) Throat (c) Eye (d) Non	e	
24.00	TO THE LOCAL PROPERTY OF THE P	[08]	
Q.1. (b)	True or False	[00]	
1.	Air constitutes 80% of man's daily intake by weight.	olution	
2.	Carbon dioxide in atmosphere has risen by about 30% due to industrial revolution.		
3.	CH ₄ is a neutral part of carbon cycle, generated by Methanotrophs (Methanogens).		
4.	Ozone is abundantly formed in stratosphere by photochemical reactions.		
-	Fill in the Blanks	300)	
5.	Atmosphere is an envelope of gases upto km from the earth. (200, 300)		
6.	N ₂ O is also emitted from (Wetlands, Forests) Rest of the gases constitute% of average composition of air. (0.96, 0.98)		
7.	Rest of the gases constitute	1074 1047)	
8.	The first definition of air pollution was given by H. Perkins in (1974, 1947)	
Q.2.	Attempt Any Six	[12]	
1.	Aeroallergens		
2.	Atmospheric layers		
3.	Bhopal Gas Tragedy	•	
4.	Define the terms: Hazards, Exposure, Vulnerability, Coping capacity, Disaster risk		
5.	Draw pie-charts: Outdoor air pollution, Sources of PCS, Annual GHG emissions by sector		
6.	Enlist and Explain: Abiotic and biotic factors affecting the climate		
7.	Expand and explain: PAP, OAP, CAP		
8.	General effects of air pollution on plants, animals and materials		

Q.3.	Describe in detail the natural and man-made sources of air pollution highlighting their effects.	[08]
	OR	
	Write a detailed note on classification and effects of air pollutants and their effects.	
Q.4.	Briefly discuss the effects of NOx, SOx, HC and PM on plants, humans and materials. OR	[08]
	Explain the formation of PCS and acid deposition in detail. Add a note on general effects and specific effects of acid rain on forest decline.	
Q.5.	Define climate change, green house effect and global warming. Discuss their mechanisms, advantages and disadvantages in detail.	[08]
	OR Write a detailed note on types of ozone and its depletion in stratosphere. Add a note on	
	adverse effects of ozone, and steps or solutions for its recovery.	
Q.6.	Describe in detail about hazards, exposure and risk in your own words. OR	[08]
	Write a detailed note on vulnerability, coping capacity and disaster management in your own words.	