## 1006E560

Candidate's Seat No :\_\_\_\_\_

## M.Sc Sem.-2 Examination P - 410

## Environmental Science June 2022

Time: 2-00 Hours]

[Max. Marks: 50

Instructions:	Attempt any THREE Questions in Section I Questions IX in Section II is COMPULSORY	
QI	Section I  A. Classify air pollutant into different categories, indicating	7
•	their sources  B. Explain in detail Photochemical smog	7
QII	<ul><li>A. Explain behavior and fate of air pollutants</li><li>B. Write down the various effects of air pollution in detail</li></ul>	7 7
Q III	<ul><li>A. Describe ambient air sampling</li><li>B. Write down types of sampling method and give details</li></ul>	7 7
Q IV	<ul><li>A. Explain collection of particulate pollutants</li><li>B. Explain collection of gaseous air pollutants</li></ul>	7 7
QV	A. Compare working principle, design, efficiency, advantages & disadvantages of cyclone separator, fabric filter and electrostatic precipitator.	7
	B. Write about control of gaseous emissions in mobile sources	7
Q VI	A. Describe Source Correction Methods in detail	7
	B. Describe adsorption of nitrogen oxides by solids in detail.	7
Q VII	A. Write in brief about sick building syndrome, building related illness and chemical hypersensitivity syndrome.	7
	B. Describe Properties, Source, Exposure and Health Effects of Volatile Organic Compounds	7
Q VIII	A. Describe Properties, Source, Exposure limits and Health Effects of Ozone	7
	B. Describe Properties, Source, Exposure limits and Health Effects of Nitrogen dioxide	7
	P.T.o	

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## Section II

XI Ç		MCQs	8
	1	Acid rain is caused by	1
	A	Nitrogen and oxides	
	В	Halogen and nitrogen	
	C	Sulfur and phosphorus	
	D	Sulfur and oxide	
	2	Which of the following diseases are caused by smog?	1
	A	Rickets	
	В	Bronchitis	
	C	Breathing Problems	
	D	All of the above	
	3	Agents of Fog formation do not include	1
	A	High relative Humidity	
	В	Diurnal temperature of short ranges	
	C	Winter Season	
	D	Rapid Radiation	
	4	which air pollutant is natural contaminates?	1
	A	Smoke	
	В	Gases	
	C	Pollen grains	
	D	fumes	
	5	Which option is not an asbestos silicate mineral?	1
	A	Chrysotile	
		Crocidolite	
	C	Tremolite	
	D	Acrolite	
	6	Permissible exposure limit of carbon monoxide according to OSHA	1
	A	30	
	В	50	
	C	70	
	D	100	
	7	Which of the following is not an example of biological	1
		IAQ pollutant?	
	A	House dust mites	
	В	Dander from pets	
	C	Bacteria	
	D	Mosquito	
	8	Which solvent is not suitable to absorb nitrogen oxides	1
		from flue gas?	
	A	Ammonium bicarbonate	
	В	Sodium hypochlorite	
	C	Calcium hydroxide	
	D	Ammonium bi-sulphite	