## MASTER OF SCIENCE (ENVIRONMENT SCIENCE & TECHNOLOGY) (CBCS-2019 COURSE) M.Sc.(Environment Science & Technology) Sem-II: WINTER: 2021 SUBJECT: AIR & NOISE POLLUTION MANAGEMENT

•		dnesday -12-2021 <b>W-21211-2021</b>	Time: 10:00 AM-01:0 Max.Marks 60	00 PM
N.B	1) 2) 3) 4)	Answer any <b>FOUR</b> from 1 to 5 questions. Question 6 is <b>COMPULSORY</b> . Figures to the right indicate <b>FULL</b> marks. Draw diagrams wherever necessary.	1	
Q.1	a)	Explain the temperature – altitude profile diagrasignificance of each layer.	am and add a note on the	(06)
	b)	What are the key lessons learnt for air pollution n pollution incident'. Highlight cause of the problem	-	(06)
Q.2	a)	Explain any three key components of the propollution in India?	gram to control vehicular	(06)
	b)	Define plume. Using a diagram describe differen under various environmental conditions.	t types of plume behaviour	(06)
Q.3 a	a)	A small town is 10kms long and 5kms wide. The effective mixing height has been found to be 500m. The air that enters the town contains particulate concentration of $100 \mu\text{g/m}^3$ and bellows at a velocity of 5m/s. the generation rate of particulate matter in town due to vehicular traffic combustion of fuels, crushing operations etc is $50\text{g/m}^2$ . On the basis of the factors given find the concentration of particulate matter all over the town.		(06)
	b)	What is 'Ozone depletion. What are its effects? Ac	ld a note on current status.	(06)
	a)	Using a diagram, explain the principle, working separator.	and function of a cyclone	(06)
	b)	Write a note on sampling using High volume samp	oler.	(06)
Q.5	a)	Using a diagram of the ear explain temporary and	permanent threshold shifts.	(06)
	b)	The wind velocity in on urban atmosphere at a determine the velocity at an altitude of 30m dur cloudy.		(06)
Q.6	<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li></ul>	Write short notes <b>ANY THREE</b> of the following. Wet Scrubbers Radiative Inversion Wind Roses Handling and Storage of Air Samples		(12)