M. SC. (ENVIRONMENT SCIENCE AND TECHNOLOGY) SEM - II (CBCS) (2013 COURSE) : SUMMER - 2018 SUBJECT :AIR AND NOISE POLLUTION MANAGEMENT

Day Date	:	Wednesday 25/04/2018 Time: 10.00 AM TO Max. Marks: 60) 01.00 PN
N.B.	1) 2) 3)	Figures to the right indicate FULL marks.	
Q.1	a)	Explain the Gaussian dispersion model for determining ground level concentration of pollutants.	(06)
	b)	Describe the various types of plumes formed in relation to different weather and temperature conditions.	(06)
Q.2	a)	In recent years the Supreme Court has played an active role in combating air pollution. Discuss.	(06)
	b)	Write a note on proper disposal of air effluents.	(06)
Q.3	a)	Write a note on the role of green belts. What is the ideal design for a green belt?	(06)
	b)	Write a note on sampling principle and method for sampling of dust.	(06)
Q.4	a)	Write a note on engine exhaust emission with a diagram.	(06)
	b)	A high volume sampler is being operated at 3 lit/min for 4 hours. The filter paper weight is 5 gm at commencement and 5.8 gm at the end of the observation period. Find the SPM concentration in $\mu g/m^3$.	(06)
Q.5	a)	Discuss bioremediation for air pollution control.	(06)
	b)	Discuss the role of wet scrubbers and cyclones in air pollution control.	(06)
Q.6	a) b) c) d)	Write short notes on any THREE of the following: Effects of noise pollution on human health Mixing height Settling chamber International and national noise standards	(12)

* *