GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

		ct Code: 161302 Date: 26/10/2016	
Subject Name: Fundamentals of Air PollutionTime: 02:30 AM to 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Write a short note on Wind Rose Diagram with its Application. Define Inversion and explain the subsidence and radiation inversion.	07 07
Q.2	2 (a) (b)	Write a short note on Sources of Air Pollution What are effects of the particulate matter on Environment? OR	07 07
Q.2	2 (b)	Explain the effects of SOx on Environment.	07
Q.3	6 (a) (b)	Write a short note on Maximum Mixing Depth (MMD). Explain the stability condition of Atmosphere. OR	07 07
Q.3	6 (a) (b)	Write a short note on Lapse rate. Briefly explain the Heat Island Effect with neat sketch.	07 07
Q.4	(a) (b)	Define the Noise. Explain the characteristics of noise. What are the sources Odor? Enlist and explain the control techniques for the same.	07 07
Q.4	(a) (b)	OR What is isokinetic condition? Explain it in detail with neat sketch. Write a short note on High Volume Sampler.	07 07
Q.5	5 (a) (b)	Write a short note on Wind velocity Profile. Enlist the primary and secondary parameters of Meteorology and explain any one in detail.	07 07
Q.5	5 (a) (b)	OR Write a short note on National Ambient Air Quality Stanards. Derive the relationship between ppm and $\mu g/m^3$.	07 07
