

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – SUMMER 2013****Subject Code: 150603****Date: 21-05-2013****Subject Name: Environment Engineering****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) Explain various components of Environment. Also draw curve showing relationship between temperature and vertical height. **07**

(b) Enlist various groundwater sources and explain in detail Radial Well and Infiltration gallery with sketch. **07**

Q.2 (a) Explain any three physical\chemical characteristics of water with its respective permissible limits. **07**

(b) Explain DO, BOD & COD. Also discuss relationship of DO and temperature. **07**

OR

(b) Explain Eutrophication and sewage sickness. Also discuss its role in Environmental Engineering. **07**

Q.3 (a) Explain One pipe and Two pipe system of plumbing for house drainage with sketch. **07**

(b) Explain with sketch Nalni Trap and Gully Trap. **07**

OR

Q.3 (a) Explain Compositing and Incineration method of sewage disposal with merits and demerits of each. **07**

(b) Calculate the quantity of solid waste produced in the city having population of 5 Lakh. Also define Sullage, Sewage and Garbage. **07**

Q.4 (a) Explain sources and effects of SO₂ and NO_x on human. **07**

(b) Discuss with sketch Cyclone Scrubber and Fabric filter. **07**

OR

Q.4 (a) Discuss various sources and effects of Noise Pollution on human. **07**

Q.4 (b) Define Noise Pollution and Air Pollution. Also discuss how Noise/Sound is measured. **07**

Q.5 (a) Describe various principles of house drainage. Also name various components of house drainage. **07**

(b) Define EIA. Write brief note on it. **07**

OR

Q.5 (a) Write name of any three water borne diseases with its responsible microbes. Also explain the respective control. **07**

(b) Discuss some measures to control Air and Noise pollution. **07**
