Seat No.:	Enrolment No.

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 07 relationship between temperature and vertical height. (b) Enlist various groundwater sources and explain in detail Radial Well and 07 Infiltration gallery with sketch. **Q.2** (a) Explain any three physical/chemical characteristics of water with its 07 respective permissible limits. (b) Explain DO, BOD & COD. Also discuss relationship of DO and 07 temperature. OR (b) Explain Eutrophication and sewage sickness. Also discuss its role in 07 Environmental Engineering. Q.3 (a) Explain One pipe and Two pipe system of plumbing for house drainage 07 with sketch. **(b)** Explain with sketch Nahni Trap and Gully Trap. 07 OR (a) Explain Compositing and Incineration method of sewage disposal with 07 Q.3 merits and demerits of each. (b) Calculate the quantity of solid waste produced in the city having population of 5 Lakh. Also define Sullage, Sewage and Garbage. **Q.4** (a) Explain sources and effects of SO and NO on human. **07 (b)** Discuss with sketch Cyclone Scrubber and Fabric filter. 07 Discuss various sources and effects of Noise Pollution on human. 0.4 07 (b) Define Noise Pollution and Air Pollution. Also discuss how Noise/Sound **Q.4** 07 is measured. **Q.5** (a) Describe various principles of house drainage. Also name various components of house drainage. **(b)** Define EIA. Write brief note on it. **07** OR (a) Write name of any three water borne diseases with its responsible 07 Q.5 microbes. Also explain the respective control. **(b)** Discuss some measures to control Air and Noise pollution. 07
