GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016

Subject Code:2161505 Date: 17/05/2016 Subject Name: Maintenance & Safety Engg Time: 10:30 AM to 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. (a) Define the term 'maintenance'. Bring out its scope. Outline the various types of 0.1 07 maintenance. What are its objectives? **(b)** What is the importance of maintenance? As a management discipline how it differs 07 from production management? State the functions of maintenance. **Q.2** (a) Describe the various elements of preventive maintenance. State its objectives and **07** advantages. State how preventive maintenance is better than corrective maintenance. **(b)** Write short note on 'Maintenance and plant safety go hand in hand'. **07** How safety engg. is related to design of any equipment? **(b)** 07 0.3 (a) Write note on 'Economics of maintenance function for a productive system'. 07 (b) Describe direct and indirect employee causes and direct and indirect environmental 07 causes of accidents. OR What measure you will take for good house/workshop keeping? 07 0.3 (a) **(b)** Write brief note on Reliability centered maintenance. **07** "No maintenance work can proceed effectively without an information system." **Q.4 07** (a) Discuss. (b) Discuss Safety education and training programme and its importance for **07** any organization. OR **Q.4** (a) Assuming yourself as a head of your institute, make plan of actions for safety **07** measures to be taken in: (i) Workshop (ii) Departmental laboratories (iii) Hostels (iv) Computer centre (v) Library **(b)** Write short note on 'Maintenance policy'. 07 0.5 (a) Explain the steps of safety procedure. 07 "Teaching 'Safety' is quite different from teaching an academic subject". Explain. **07 (b)** OR (a) List out various assumptions in MAPI method and explain the following term in **Q.5** 07 short: (i) Defender (ii) Challenger (iii) Gradient Inferiority. **(b)** Write note on 'Safety training and publicity'. **07**
