

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION – WINTER • 2014

Subject Code: 182504

Date: 27-11-2014

Subject Name: Facilities Planning

Time: 02:30 pm - 05:00 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) Why facility location planning is needed? Explain general procedure for facility location decisions. **07**
- (b) Explain how you will apply Simple Median Model for determining the best location of facilities. **07**
- Q.2** (a) Justify selection of Rajkot as the hub of foundry industries. **07**
- (b) Write short note on The Indian Factories Act 1948. **07**
- OR**
- (b) Write short note on Accident Control. **07**
- Q.3** (a) Write short note on Safety programme. **07**
- (b) Write short note on The Industrial Dispute Act 1947. **07**
- OR**
- Q.3** (a) Describe principles of material handling. **07**
- (b) Explain classification of material handling system. **07**
- Q.4** (a) Describe Flexible Manufacturing System. **07**
- (b) Explain how you will Evaluate the facilities plans. **07**
- OR**
- Q.4** (a) Explain Implementing and Maintaining the facilities plan. **07**
- (b) Describe Fixed Automation System. **07**
- Q.5** (a) Explain how you will solve the facility planning problem by "Computerized Relative Allocation of Facilities Techniques". **07**
- (b) Differentiate between Product Layout and Process Layout. **07**
- OR**
- Q.5** (a) A machine with purchase value of Rs.200000 and the salvage value of Rs.20000 at the end of 15 years. It was sold for Rs.145000 at the end of 5 years. What is the loss or profit if Straight Line Depreciation Method was adopted? **07**
- (b) A machine is purchased for Rs.20000. The salvage value is Rs.5000 at the end of 10 years. If the depreciation is charged by Diminishing Balance Method, calculate the Book value of the machine after 3 years. **07**
