

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Engineering - SEMESTER-V • Examination – WINTER • 2014

Subject Code: 3351907**Date: 06-12-2014****Subject Name: Operations Management and Information Systems****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.
4. English version is considered to be Authentic.

- Q.1** Answer any seven out of ten. **14**
1. Define operation management
 2. Define demand forecasting
 3. List 7 quality tools.
 4. Give any two definitions of quality.
 5. Give any two methods/Techniques for quality circle.
 6. Give four applications of MIS.
 7. Give difference: rejection and rework.
 8. List types of production.
 9. Give four importance of market survey.
 10. Define the term: (1) Quality assurance (2) Statically Quality control (SQC).
- Q.2** (a) Define following terms :(1) Product (2) Production (3) Productivity. **03**
- OR
- (a) Explain need of forecasting. **03**
- (b) List objectives of Information system. **03**
- OR
- (b) List needs to integrate information systems with 7M resources. **03**
- (c) List types of marketing channels. **04**
- OR
- (c) State quality of good supervisor. **04**
- (d) Explain concept of Quality circle. **04**
- OR
- (d) Explain concept of TQM. **04**
- Q.3** (a) Define the following terms: (1) Data (2) DBMS (3) RDMS **03**
- OR
- (a) Define layout. Explain process layout in detail. **03**
- (b) Explain the relation between cost and quality. **03**
- OR
- (b) List out the quality system standards and explain the area of application. **03**
- (c) **Explain** Pareto analysis with suitable example. **04**
- OR
- (c) Write short note on ERP. **04**
- (d) State types of communication medias. **04**
- OR
- (d) List the names of RDBMS Softwares. **04**
- Q.4** (a) Draw tree structure for mechanical engineering application using data model. **03**
- OR
- (a) Difference between DBMS and RDMS. **03**
- (b) List out the steps/Procedure for creating, storing of DBMS. **04**

OR

- | | | | |
|------------|-----|---|-----------|
| | (b) | List out the steps/Procedure for Editing and retrieval of DBMS. | 04 |
| | (c) | Explain the role of computers in information system. | 07 |
| Q.5 | (a) | Write need and importance of computer aided information system. | 04 |
| | (b) | Briefly explain concept of CRM | 04 |
| | (c) | Difference between Data and Information. | 03 |
| | (d) | Difference between simple average methods and simple moving average method. | 03 |
