| Seat No.: | Enrolment No. |
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME – SEMESTER II - EXAMINATION – SUMMER - 2017

| Subject Name: Production & Operation Management Time: 02:30 PM To 05:00 PM Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.  Q.1 (a) Define Operations management. Explain the key concepts of Operation management. (b) Explain ABC analysis of inventory control.  Q.2 (a) Explain factors affecting make or buy decision. (b) Explain preventive maintenance system. Differentiate it with breakers. | 05/2017         |
|---|-----------------|
| <ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> <li>Q.1 (a) Define Operations management. Explain the key concepts of Opera management.</li> <li>(b) Explain ABC analysis of inventory control.</li> <li>Q.2 (a) Explain factors affecting make or buy decision.</li> </ol>  | arks: 70        |
| management. (b) Explain ABC analysis of inventory control.  Q.2 (a) Explain factors affecting make or buy decision.   |                 |
| Q.2 (a) Explain factors affecting make or buy decision.   |                 |
|   | 07              |
| maintenance.  | 07<br>lown 07   |
| OR  |                 |
| <b>(b)</b> Explain objectives of maintenance. Discuss types of maintenance.   | 07              |
| <ul> <li>Q.3 (a) Classify Production system. Explain any one in detail.</li> <li>(b) Explain main function of Production Planning and Control.</li> <li>OR</li> </ul>   | 07<br>07        |
| <ul> <li>Q.3 (a) Explain scope and strategic level decisions of production management.</li> <li>(b) State objective of plant layout and explain principles of plant layout.</li> </ul>  | 07<br>07        |
| Q.4 (a) Which factors causes line balancing problem? Write steps to solve balancing problem.  |                 |
| (b) Explain the various factors that affect the selection of material han equipment.  | dling <b>07</b> |
| Q.4 (a) What is aggregate planning? What are its objectives?  | 07              |
| (b) Define material handling. Discuss various types of material handling equipments.  | 07              |
| <ul><li>Q.5 (a) Explain Just in Time system of manufacturing with diagram.</li><li>(b) Discuss total productive maintenance.</li></ul>  | 07<br>07        |
| OR  | 0=              |
| <ul><li>Q.5 (a) Define Material Requirement Planning (MRP). Explain MRP system.</li><li>(b) Explain materials management. State the importance of materials management.</li></ul>   | 07<br>erials 07 |

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