## GUJARAT TECHNOLOGICAL UNIVERSITY

| BE - SEMESTER-VII EXAMINATION – SUMMER 2016   |            |  |          |
|---|------------|--|----------|
| Subject Code:172502Date:07/05/20  |            |  | 6        |
| Subject Name:Productivity Improvement MethodsTotal Marks: 70Time:02:30 PM to 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks. |            |  | 70       |
| Q.1   | (a)<br>(b) | Define productivity. Discuss various reasons of low productivity.<br>Explain two handed process chart with examples.   | 07<br>07 |
| Q.2   | (a)<br>(b) | Discuss step by step basic procedure in method study.<br>Discuss various technical methods to improve productivity.<br><b>OR</b>   | 07<br>07 |
|   | (b)        |  | 07       |
| Q.3   | (a)<br>(b) | Explain flow diagram and string diagram.<br>Write a note on Therbligs.   | 07<br>07 |
| Q.3   | (a)<br>(b) | <b>OR</b><br>Write a note on SIMO Chart with appropriate example.<br>Explain the importance of principle of motion economy and state the principles<br>of motion economy related to the use of human body. | 07<br>07 |
| Q.4   | (a)<br>(b) | State and explain in brief the various allowances to be considered while<br>estimating the standard time.<br>Define work measurement. Enlist and explain the techniques of work<br>measurement.            | 07<br>07 |
| OR  |            |  |          |
| Q.4   | (a)<br>(b) | Write a note on Predetermined Motion Time & Systems (PMTS).<br>Define ergonomics. Discuss man machine system interfaces in ergonomics.   | 07<br>07 |
| Q.5   | (a)<br>(b) | Discuss concept of wages. Enlist desirable characteristic of good wage system.<br>Discuss implementation methodology of BPR.<br>OR   | 07<br>07 |
| Q.5   | (a)<br>(b) | Discuss objectives of maintenance and importance of maintenance.<br>Enlist and explain types of maintenance.   | 07<br>07 |

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