

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018

Subject Code: 2180207

Date: 15/11/2018

Subject Name: Applied Industrial Engineering In Automobile

Time: 02:30 PM TO 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.

| | | MARKS |
|------------|---|-----------|
| Q.1 | (a) Write three objectives of Production, Planning and Control | 03 |
| | (b) Describe Job shop and Batch Production Methods of Manufacturing. | 04 |
| | (c) Define Productivity. Discuss factors affecting productivity. | 07 |
| Q.2 | (a) Discuss in brief about the work study. | 03 |
| | (b) Explain Two handed process chart with its application. | 04 |
| | (c) Describe Operation Process Chart with suitable example. | 07 |
| OR | | |
| Q.3 | (c) What is Therbligs? Explain therbligs in technical aspects. | 07 |
| | (a) Define Micro motion and Macro motion Study. | 03 |
| | (b) Differentiate between String chart and Travel Chart. | 04 |
| | (c) Explain 5's Techniques in context to your college laboratory. | 07 |
| OR | | |
| Q.3 | (a) Define Quality in terms of different quality Gurus. | 03 |
| | (b) Explain Supply Chain Management and Logistics. | 04 |
| | (c) Describe about various Tender Methods with its advantages. | 07 |
| Q.4 | (a) Discuss in brief about six sigma. | 03 |
| | (b) Explain technical features of "Quality Circle" in production line. | 04 |
| | (c) Illustrate the "Ishikawa Diagram" related to real life example. | 07 |
| OR | | |
| Q.4 | (a) Explain significance of Pareto analysis Diagram. | 03 |
| | (b) Define: Poka yoke, Kaizen, Zero Defect and Benchmarking. | 04 |
| | (c) Write Short Note on Total Quality Management. | 07 |
| Q.5 | (a) Discuss on Reliability of products. | 03 |
| | (b) Explain the basic idea of Just in Time. | 04 |
| | (c) Describe the Failure Mode and Effect Analysis (FMEA) with suitable example along with its advantages. | 07 |
| OR | | |
| Q.5 | (a) Define: CPM, PERT and EOQ. | 03 |
| | (b) Discuss on formulation of Linear Programming. | 04 |
| | (c) Write short Notes on Quality Certification. | 07 |
