

Code: ME7T2

**IV B.Tech - I Semester – Regular Examinations – October 2017**

**PRODUCTION PLANNING AND CONTROL  
(MECHANICAL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1. a) List out the functions of PPC.
- b) What are the elements of PPC.
- c) State the importance of forecasting.
- d) What is VED analysis.
- e) What is inventory management.
- f) Define Routing.
- g) What is Bill of Materials.
- h) What are the objectives of scheduling.
- i) List out various inputs of aggregate planning.
- j) State any four activities of dispatcher.
- k) What is centralized dispatching.

**PART – B**

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Briefly explain the types of production, stating their advantages and disadvantages.

8 M

b) The sales revenue of M/S Sunder garments during 2008 to 2016 is as following. Estimate the sales forecast for year 2017 using least square method. 8 M

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016
Car Sales	8	11	6	25	27	36	38	46	55

3. a) What is EOQ? Derive an expression for calculating the EOQ. 8 M

b) What are the seven wastes according JIT? Explain. 8 M

4. a) Briefly explain the factors affecting routing procedure. 8 M

b) Six jobs go over two machines M1 & M2 in the following order. Find the sequence that minimizes the total elapsed time using johnsons rule. 8 M

Jobs	M1	M2
A	10	5
B	7	4
C	5	7
D	3	8
E	2	6
F	4	3

5. a) What is aggregate planning? Explain the inputs of aggregate planning? 8 M
- b) Explain Line and Chase Strategy. 8 M
6. a) Explain dispatching procedure? Also explain different types of dispatching. 8 M
- b) With neat sketches briefly explain various forms raised by dispatcher. 8 M