

Printed Pages: 1

Sub Code: RME-062

Paper Id 140271Roll No. **B TECH****(SEM-VI) THEORY EXAMINATION 2018-19****PRODUCTION PLANNING & CONTROL****Time: 3 Hours****Total Marks: 70****Note: Attempt all Sections. Choose missing data suitably.****SECTION A****1. Attempt all questions in brief.****2x 7= 14**

- a. State the factors of production.
- b. Define the boundaries of production system.
- c. What is the organization of PPC?
- d. List out activities involved in production planning & control.
- e. Describe main function of enterprise resource planning.
- f. Explain move card.
- g. What is ABC analysis?

SECTION B**2. Attempt any three of the following:****7x3=21**

- a. Distinguish between production and production system.
- b. What are the aims and objectives of production planning & control?
- c. List out the methods of sales forecasting and explain one method in detail.
- d. Explain function of sequential load statement with example.
- e. Write notes on the following topic:
 - i. Dispatching
 - ii. Expediting.

SECTION C**3. Attempt any one part of the following:****7x 1=7**

- a. What are the functions of production planning & control?
- b. Explain the three basic time horizon for forecasts in detail.

4. Attempt any one part of the following:**7x 1=7**

- a. Justify the suitability of cellular layout for the following:
 - i. Just-in-time manufacturing
 - ii. Flexible manufacturing
- b. Discuss routing and scheduling w.r.t. job order industry.

5. Attempt any one part of the following:**7x 1=7**

- a. Explain the objectives in a line balancing problem and define balancing delay and Line efficiency.
- b. Differentiate between loading & scheduling with example.

6. Attempt any one part of the following:**7x 1=7**

- a. What are the differences between PERT and CPM?
- b. The precedence relationship for nine activities is given below. Find critical path and different floats/ slack:

Activity	A	B	C	D	E	F	G	H	I
Duration(days)	9	9	10	4	7	3	8	7	0
Precedence	-	-	-	A	B	C	D,E,F	C	G,H

7. Attempt any one part of the following:**7x 1=7**

- a. Differentiate manufacturing resource planning and material resource planning on the basis of functionality.
- b. Explain the different costs involved in inventory model and purpose of maintaining inventory in any production unit.

Page 1 of 1