

Code No: R1642031

**R16**

**Set No. 1**

**IV B.Tech II Semester Advanced Supplementary Examinations, Aug/Sep - 2022**

**PRODUCTION PLANNING AND CONTROL**

**(Common to Mechanical Engineering and Mining Engineering)**

**Time: 3 hours**

**Max. Marks:70**

*Question paper consists of Part-A and Part-B*

*Answer ALL sub questions from Part-A*

*Answer any FOUR questions from Part-B*

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**PART-A(14 Marks)**

1. a) List out the elements of production control. [3]
- b) Write the types of forecasting. [3]
- c) What are the limitations of JIT? [2]
- d) Write a short note on route sheets. [2]
- e) What is scheduling? What are its objectives? [2]
- f) Write the various activities of dispatcher. [2]

**PART-B(4x14 = 56 Marks)**

2. a) What is PPC and what are its objectives? Explain in detail. [7]
- b) Write a short note on the following. [7]
  - i) Continuous production system ii) Intermittent production system

3. a) Describe 'Least Square Method' of sales forecasting with its advantages and limitations. [7]
- b) Forecast the demand for the following series by exponential smoothing method [7]  
by taking  $\alpha = 0.3$  and  $0.6$

Period	1	2	3	4	5	6	7	8	9	10
Actual Demand	10	12	8	11	9	10	15	14	16	15

4. a) What are the advantages of inventory control? What are the symptoms of poor inventory control [7]
- b) Explain P and Q systems of controlling the inventories with neat diagrams. [7]
5. a) Define routing and explain what are the factors affecting the routing procedure in detail. [7]
- b) Explain about BOM with a suitable example. [7]
6. a) Write any seven differences between scheduling and loading. [7]
- b) Write a short note on chase planning. [7]
7. a) What is dispatching? State various activities of a dispatcher. [7]
- b) Write any eight applications of computer in PPC. [7]

