

Code No: **R4203A****R10****Set No. 1****IV B.Tech II Semester Supplementary Examinations, April/May - 2019****PRODUCTION PLANNING AND CONTROL****(Common to Mechanical Engineering and Automobile Engineering)****Time: 3 hours****Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

1. a) Explain the information required by the process Planning engineer for good process Planning. [8]
b) Explain various elements of Production Control. [7]
2. Use Holt's double exponential smoothing method to compute demand forecasts for periods 2-7 for the following data. Use $\alpha = 0.2$, $\beta = 0.2$, $I_1 = 108$, $S_1 = 0$.

Period	Demand
1	108
2	110
3	106
4	108
5	108
6	105

[15]

3. a) Explain the significance of EOQ formula. What are its Limitations? [7]
b) What is meant by VED analysis? What is its significance? [8]
4. a) Explain, in detail the procedural steps involved in MRP. [8]
b) Compare JIT and KANBAN system. [7]
5. a) Explain the factors affecting the routing procedure. [8]
b) What information is contained in the BOM file? Explain. [7]
6. a) Describe machine loading and scheduling with an example. [8]
b) Describe index method of scheduling. [7]
7. What are the graphic methods of Aggregate planning? Explain their relative advantages and disadvantages. [15]
8. Describe the following forms used in dispatching:
a) Move order
b) Production ticket. [15]