

**B.TECH. SEM -IV PRODUCTION 2014 COURSE (CBCS) :**  
**SUMMER - 2018**  
**SUBJECT: PRODUCTION PLANNING & CONTROL**

Day: **Tuesday**  
Date: **12/06/2018**

**S-2018-2310**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 60

**N.B:**

- 1) All Questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of Programmable calculator is **ALLOWED**.
- 4) Assume Suitable data if necessary.

- Q.1 a)** What are different types of Production Systems? **(05)**
- b)** Explain Product Life Cycle with its importance. **(05)**

**OR**

**Q.1** Describe Role and Stages of PPC in manufacturing Industries. **(10)**

- Q.2 a)** Differentiate between the Sales forecasting methods. **(04)**
- b)** The sales of a leading business daily from period Jan. 1998 to Aug. 1998 was as below:- **(06)**

Month	Jan	Feb	Mar	April	May	June	July	Aug
Sales	44329	44670	48670	45784	45676	55730	54968	56629

- i)** Calculate three months moving Average ignoring decimal values.
- ii)** Forecast the demand for the month of September 1998.
- iii)** If the actual demand in the month of Sept 1998 is 58752, What shall be the Forecast for the month of Oct 1998

**OR**

**Q.2** Explain moving Average sales forecasting and Regression Analysis method with its Merits and applications. **(10)**

- Q.3 a)** What is the use of Process Sheet and Gantt Chart? **(05)**
- b)** Explain Loading and follow up with its importance in PPC. **(05)**

**OR**

**Q.3** Determine minimum total elapsed time with best sequence of operations for following:- **(10)**

Jobs	A	B	C	D	E	F	G
M1	3	8	7	4	9	8	7
M2	4	3	2	5	1	4	3
M3	6	7	5	11	5	6	12

- Q.4 a)** What is the scope and Requirement of MRP? **(05)**
- b)** Explain capacity Requirement Planning with its merits and applications. **(05)**

**(P.T.O.)**

**OR**

- Q.4 a)** What is Vendor Development? Also state its use in PPC. (05)
- b)** What is Purchase Documentation? Also mention its importance in PPC. (05)
- Q.5 a)** Define Inventory and Inventory control also state characteristics of Inventory control. (05)
- b)** What are the different types of inventory? Also state cost of inventory. (05)

**OR**

- Q.5 a)** What are the different types of stores? Also state the use of good storage layout. (05)
- b)** The demand for an item in a company is 18000units per year and the company can produce the item at a rate of 3000 per month. The cost of one set up is Rs500 and holding cost of one unit per month is 15 paise . Determine the optimum manufacturing quantity and total cost per year assuming the cost of one unit as Rs.2 (05)
- Q.6** Describe computer aided production planning and control for productivity measurement. (10)

**OR**

- Q.6** Explain computer Aided production planning and control for Scheduling. (10)

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