

**B.TECH. SEM -IV PRODUCTION 2014 COURSE (CBCS) :  
WINTER - 2017**

**SUBJECT: PRODUCTION PLANNING & CONTROL**

Day: **Friday**  
Date: **24/11/2017**

**W-2017-2102**

Time: **02.30 PM TO 05.30 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** Describe the PPC is an integrated Function in industry. (10)

**OR**

**Q.1** Explain role and stages of PPC in industry (10)

**Q.2** What are the different methods of Sales Forecasting? Explain any one in detail (10)

**OR**

**Q.2 a)** What is need of sales forecasting? Also state short term forecasting and long term forecasting. (05)

**b)** The sales of a leading newspaper in the period of Jan 1999 to May 1999 is as below (05)

Month	Jan	Feb	Mar	April	May
Sales	5,15,837	5,22,910	5,63,290	5,27,695	5,62,873

- i) Forecast the demand for the month of June 1999.
- ii) If the actual sales in the month of June was 5, 85,894 forecast the demand for the month of July 1999.

**Q.3 a)** Describe Sequencing and Scheduling with its merits and demerits (05)

**b)** What is Line Balancing? State its use in PPC. (05)

**OR**

**Q.3** Seven jobs are performed on Machine 1 and Machine 2. The time taken in hours by each job on each machine is as given below. (10)

Jobs	A	B	C	D	E	F	G
M1	5	3	2	10	12	6	8
M2	3	2	5	11	10	7	3

(Determine the sequence of Job that minimize the total elapsed time to complete the Jobs. Also compute the minimum time)

**Q.4 a)** Explain Master Production Schedule with its block diagram, merits, demerits and applications. (05)

**b)** What is Bill of Material? State its merits. (05)

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

**OR**

- Q.4 a)** What is Make or Buy decisions? State factors on which it depends. (05)
- b)** Explain ERP with its merits, limitations and applications (05)
- Q.5 a)** Explain EOQ with its use in inventory control (05)
- b)** Describe the concept of JIT (just in time) with its working, merits, demerits and applications. (05)

**OR**

- Q.5 a)** Explain the importance of stores management in inventory control. (05)
- b)** A Company purchase 15,625 units of Raw material at Rs 12 per unit to meet its entire annual requirement. The order cost comes to Rs. 60 per order and inventory carrying cost is Rs.1.20 per unit find out (05)
- i) Economics order quantity.
  - ii) Total ordering cost.
  - iii) Total carrying cost.
  - iv) Total inventory cost.
- Q.6** Describe Computer Aided Production Planning And Control applied to Machine Capacity Planning And utilization (10)

**OR**

- Q.6** Explain CAPP For Material Requirement. (10)

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