

B.TECH. DEGREE EXAMINATION, MAY 2016**Eighth Semester**

Branch : Mechanical Engineering

PRODUCTIONS PLANNING AND CONTROL (M)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

*Suitably assume any missing data.***Part A***Answer all questions.**Each question carries 4 marks.*

1. What is PPC ?
2. List out the sales forecasting techniques ?
3. What are the objectives of production planning ?
4. What is mean by BOM ?
5. Brief Johnson's rule ?
6. Explain Job-flow time ?
7. How supply chain management helps in material handling ?
8. What are the function of stores management ?
9. Briefly explain PERT and CPM.
10. What is master scheduling ?



(10 × 4 = 40 marks)

Part B*Answer all questions.**Each question carries 12 marks.*

11. (a) Explain in detail the methods for estimating sales trend ?

Or

- (b) Table given below shows the sales of a automobile parts making company. Compute the sales for the year 2020.

Year	Sales (lakhs)
2000	80
2001	90
2002	92
2003	83
2004	95
2005	98
2006	92
2007	120

Turn over

12. (a) Explain master production scheduling ?

Or

(b) Explain Routing and its procedure ?

13. (a) Seven jobs are to be processed through 3 machines M1, M2 and M3 in the order M1, M2, M3. The processing times are given in hrs. to process each one of the 3 jobs through all the machines, find the optimal sequence of the jobs. Also find the minimum total elapsed times and idle time on M2 and M3.

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

Or

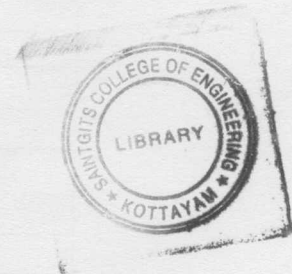
(b) Find the sequence that minimizes the total time required in performing the following jobs on three machines in the order ABC.

Processing time (hrs)	Job	1	2	3	4	5	6
Machine A	:	8	3	7	2	5	1
Machine B	:	3	4	5	2	1	6
Machine C	:	8	7	6	9	10	9

14. (a) Explain in details how material management department functions ?

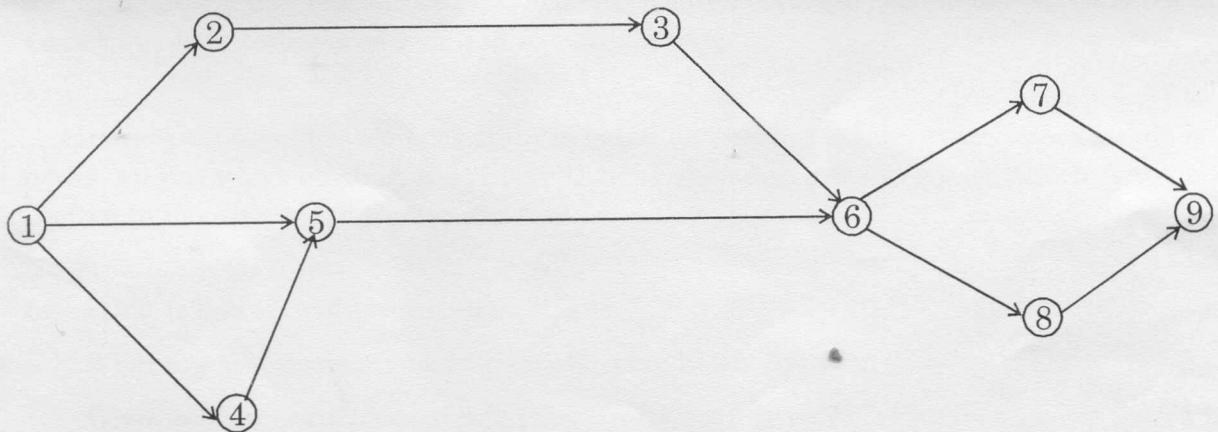
Or

(b) Explain supply chain management ?



15. (a) Find the critical path of the following PERT network and determine the probability that the project will completed in 28 days.

Activity	Time estimates		
	A	B	M
A	3	7	5
B	2	5	3
C	5	10	7
D	5	10	8
E	3	6	4
F	3	8	5
G	2	3	2
H	4	9	6
I	3	6	4
J	2	5	3
K	5	9	7



Or

- (b) What is mean by despatching ? Explain its duties procedure and rules for despatching ?

(5 × 12 = 60 marks)