

Code: 14E00206

MBA II Semester Supplementary Examinations December/January 2015/2016

OPERATIONS MANAGEMENT

(For students admitted in 2014 only)

Time: 3 hours

Max. Marks: 60

All questions carry equal marks

SECTION – A

Answer the following: (05 X 10 = 50 Marks)

- 1 Explain the historical development of PDM.
 - OR
 - 2 What is CAD/CAM analysis?
 - 3 What are the factors to be considered in location of facilities?
 - OR
 - 4 Explain different types of layouts of facilities.
 - 5 Explain the methods of production control.
 - OR
 - 6 Find the optimal sequence, total elapsed time for processing the following seven jobs.
- | Job | A | B | C | D | E | F | G |
|-------------|---|---|----|---|---|----|---|
| Machine - 1 | 9 | 5 | 8 | 3 | 4 | 1 | 7 |
| Machine - 2 | 2 | 4 | 10 | 5 | 6 | 11 | 6 |
- 7 Explain any two recording techniques in method study.
 - OR
 - 8 Discuss the control charts for variables and attributes.
 - 9 What are the types of productivity? How is it important for production management?
 - OR
 - 10 Discuss the total productivity model.

SECTION – B

(Compulsory Question)

01 X 10 = 10 Marks

11 Case study:

The following data were collected from a process manufacturing power supplies. The variable of interest is weight (grams) of a pack, and $n = 5$. Draw the appropriate control chart for the following. (for $n = 5$, $A_2 = 0.577$, $D_3 = 0$, $D_4 = 2.114$)

Sampling No.	$\bar{x}$	R	Sample No.	$\bar{x}$	R
1	1003	14	11	1005	14
2	1002	15	12	1003	12
3	1004	12	13	1002	13
4	1005	21	14	1005	14
5	1004	14	15	1004	15
6	1006	13	16	1005	13
7	1002	17	17	1006	15
8	1005	12	18	1002	12
9	1006	14	19	1005	14
10	1004	13	20	1003	12