

MBA II Semester Supplementary Examinations December/January 2017/2018

OPERATIONS MANAGEMENT

(For students admitted in 2014, 2015 & 2016 only)

Time: 3 hours

Max. Marks: 60

SECTION – A

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

1 Explain about process and product design.

OR

2 Briefly describe about CAD/CAM analysis.

3 Explain the importance of factors in location of facilities.

OR

4 What are the different types of layouts? Explain their merits and demerits.

5 Explain the advantages and disadvantages of different types of production.

OR

6 Explain the methods of production control.

7 Discuss briefly the merits and limitations of work study and method study.

OR

8 Briefly discuss control charts for variables and attributes.

9 Explain briefly the various concepts of productivity.

OR

10 Explain about 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.

Sample No.	\bar{X}	R	Sample No.	\bar{X}	R
1	1008	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

(For $n = 5$, $A_2 = 0.577$, $D_3 = 0$, $D_4 = 2.114$).
