

Code: 9E00204

MBA & MBA (Finance) II Semester Supplementary Examinations December/January 2015/2016

PRODUCTION & OPERATIONS MANAGEMENT

(For students admitted in 2011, 2012, 2013 & 2014)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Define production and operations management and discuss different types of production systems with suitable examples.
(b) Briefly discuss functions of production and operations management.
- 2 Illustrate the product design process with a suitable example.
- 3 There are five existing facilities which are to be served by a single new facility. The details of the existing facilities are shown in the following table.

Existing facility	1	2	3	4	5
Coordinates (a, b)	5.10	20.5	15.20	30.25	25.5
No. of trips of loads/year	100	300	200	300	100

Find the optimum location of the new facility based on gravity location concept.

- 4 Briefly explain different long term and short term capacity strategies.
- 5 (a) What is job scheduling problem? Distinguish it from flow shop scheduling problem with a suitable example.
(b) Explain the active schedule, semi active schedule and non-delay schedule.
- 6 (a) Distinguish between method study and time study.
(b) Briefly discuss different steps in work sampling.
- 7 (a) Discuss various ways of improving productivity.
(b) Discuss the concepts of productivity cycle, productivity engineering and management.
- 8 The following table gives the number of missing rivets noted in a newly fabricated bus. Construct a C-chart.

Bus No.	1	2	3	4	5	6	7	8	9	10
No. of missing rivets	14	13	26	20	9	25	15	11	14	13
