

July-August 2016

**Master of Business Administration (MBA) Examination
II Semester**

Fundamentals of Operation Management

Time : 3 Hours]

[Max. Marks : 80

Note : Attempt any four questions from Section A. Section B is compulsory.

Section A

- What are various types of Production Systems ? Which types of production system is suitable for : (Give reasons)
 - Ship-Building
 - Pharmaceutical Formulation.
 - What are various types of productivity ? How can labour productivity be enhanced ?
- Discuss importance of customisation of services with an example.
 - What are principles of a good plant layout ?
- Being a project manager of a new manufacturing organisation what factors will you consider before deciding capacity ?
 - Describe the significance of Six Sigma Quality in present world scenario.
- "Appropriate technology or process should be preferred over the latest." Discuss.
 - What are various sequencing rules for single machine n-jobs ? Discuss their importance.
- "Learning curve is useful especially in long-term purchasing." Discuss.
 - Explain Business Process Re-Engineering with a real life example.
- Write short notes on the following :
 - Material Handling Equipments.
 - Control Charts for Attributes.
 - OCC (Operating Characteristic Curve).

Section B

7. Draw the precedence diagram and minimum no. of workstations if company has to produce 24 units in a shift. What is maximum production rate if activities cannot be sub-integrated ?

Activity	A	B	C	D	E	F	G	H
Precedence Act	-	-	A	A, B	B	C	D, E	C, D
Duration (Min.)	3	6	10	4	5	4	7	8

8. RSSCL forecast demand for next 6 months :

Month	→	March	April	May	June	July	Aug
Demand	→	200	250	300	350	400	150

The cost of holding inventory is Rs. 300 / unit / month. Shortages are not allowed. Opening stock is 100 units and closing stock required is 200 units. Determine :

- Production rate / month.
- Cost of Aggregate Planning.

□□□