



PG – 895

II Semester M.B.A. Degree Examination, July 2017
(2007 – 08 Scheme)

2.3 : PRODUCTION AND OPERATIONS MANAGEMENT

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer **any six** questions. **Each** question carries **2** marks. (6×2=12)

1. a) What is inventory management ?
- b) Define 'POKA YOKE'.
- c) What is JIT system ?
- d) Define 'DFA'.
- e) Expand MTBF.
- f) Define DMAIC and DMADV.
- g) Define Bill of Materials.
- h) Define 'FIFO and LIFO'.

SECTION – B

Answer **any three** questions. **Each** carries **8** marks. (3×8=24)

2. Explain the stages of new product development.
3. Explain 'Method Study'.
4. Explain '5S' House keeping.
5. What is 'Vendor development' and how to rate 'vendor performance' ?
6. Explain the importance of maintenance in manufacturing organization.

SECTION – C

Answer **any two** of the questions. **Each** carries **12** marks. (2×12=24)

7. Explain TQM. Explain 9M's that affect 'Quality of Products or Services'.
8. Explain quality control techniques used for controlling 'process quality' and 'product quality'.

P.T.O.



9. Explain the importance of material resource planning. Describe the components of MRP system.

SECTION – D

Case study (compulsory) :

(1×15=15)

10. Develop a material requirement plan for the fire extinguisher, cylinder, valve assembly, valve housing and handle bars. Show what quantity of orders must be released and when to be released.

Week	Demand
1	100
2	
3	150
4	150
5	200
6	150
7	
8	300

Details of Bills of materials

Parts required	Order quantity	No. of units	Lead time	Stock in hand
Fire extinguisher	250	1	1	150
Cylinder	350	1	2	300
Valve assemblies	400	1	1	325
Valve	350	1	1	150
Valve Housing	400	1	1	350
Handle Bars	700	2	1	650