

Roll No

MMIP-102**M.E./M.Tech., I Semester**

Examination, December 2015

Operations Management*Time : Three Hours**Maximum Marks : 70*

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Briefly mention the historical development of production and operations management. Can you project the future for the same. 7
b) What are the different types of production/operation system? Where should each one of them be applicable. 7
2. a) "Productivity enhances the standard living and happiness". Comment on this statement. 7
b) What is Michael Porter's thesis in his five forces model? Explain. 7
3. a) How does a good product design increase organisational efficiencies? 7
b) What is simplification and standardisation. Explain their advantages. 7

4. a) Wouldn't DFM supplies creativity in a firm? Discuss. 7
b) What are the problems, if any, with concurrent Engineering. 7
5. a) Distinguish the terms reliability and availability? How these are different from MTBF. 7
b) How DMAIC strategy is implemented to reduce variation? 7
6. a) How quality can be defined. Discuss the taguchi loss function. 7
b) How TQM helps to improve effectiveness. Write down the advantage of ISO-9000. 7
7. a) Why are some industries located near the source of raw materials, where as some near the markets for their finished goods. 7
b) "Group technology as applied to a production/operations system is a human relations technology". Would you agree with this statement. Discuss. 7
8. Write down short notes on any four of the followings: 14
a) SWOT
b) PLC management
c) QFD
d) Six sigma
e) CRAFT
f) Brown Gibson model
