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Reg. No. :

Name :

Fourth Semester M.A. (P.M.) Degree Examination, June 2009
(New Scheme – 2006 Admission)

PM – 2.4.1 : Paper – I INDUSTRIAL ENGINEERING

Time : 3 Hours

Max. Marks : 75

PART – A

Answer **any five** questions. All questions carry **equal** marks. Each answer not to exceed **300** words : **(5×6=30 Marks)**

1. Define productivity. What is the role of industrial engineering in enhancing productivity ?
2. Define time and motion studies. How are they used ?
3. Briefly explain how planning and analysis of office systems and procedures are done. How do you ensure that proper systems are in place ?
4. Mention the principles of work measurement. How are they applied to office work ?
5. Briefly explain the essential principles of transporting.
6. Why is ABC classification of items done ? How is the ABC distribution curve drawn ?
7. What do you understand by safety stock ? How is the optimal level of safety stock determined ?
8. What is preventive maintenance ? How is it important in safety management ?

PART – B

Answer **any three** questions. All questions carry **equal** marks. Each answer not to exceed **1500** words : **(3×15=45 Marks)**

9. What are the objectives of work sampling ? What are its implications for productivity ? Explain the typical procedure for conducting work sampling study of computer printers in an office.

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10. What are network diagrams ? How do CPM and PERT differ in their application as networking techniques ?
11. Give the general format of a Materials Requirement Planning (MRP) report. Describe the factors to be considered for achieving economy in materials management.
12. What is Economic Order quantity (EOQ) ? Explain the EOQ model of inventory with its simplifying assumptions.
13. Explain any two theories of accident causation. Suggest remedial measures for industrial accidents. What role the HR department can play in this regard ?

PART - B