MP-204(Old)/MP-109

June - Examination 2017

Master of Business Administration - I Year

Examination

Operations Management

Paper - MP-204(Old)/MP-109

Time : 3 Hours] **[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $8 \times 2 = 16$

(Very Short Answer Questions)

Note: Answer **all** questions within limit of 30 words each.

1) (i) Define work study.

(ii) Write formula for calculation of standard time.

(iii) Name the elements of production system.

(iv) Define process design.

(v) Determine productivity for two machines producing 100 good pieces of a part in 8 hours.

(vi) What is break down maintenance?

(vii) Name three companies producing cement.

(viii) Name the methods of forecasting.

Section - B $4 \times 8 = 32$

(Short Answer Questions)

Note: Answer **any four** questions within a limit of 200 words each.

2) Explain the objectives of quality movement since inspection to TQM.

3) Name different maintenance practice adopted by a continuous manufacturing plant. Also define reliability centre maintenance.

4) Write down in detail the stages of a product design with examples.

5) Explain in detail both quantitative and qualitative factors to be considered in choosing a location for a manufacturing FMCG product.

6) A workship operates on two shifts of 8 hours per day. It has 10 machines. It works for 6 days in a week, machine utilization is 90% and the efficiency of the machines is 85%. Calculate the designed /rated capacity of the workshop in standard hours.

7) The demand for three months for 100 watts bulbs is given below:-

Period	January	February	March
Demand	500	600	800
Weight	0.25	0.35	0.40

Forecast the demand for the month of April by using weighted moving average method.

8) Explain the elements of standard time. What are steps you would initiate for reduction of standard time in washing machine. Assembly line? Discuss.

9) Explain the historic evaluation in quality management indicating the concept and features of each stage.

Section - C $2 \times 16 = 32$

(Long Answer Questions)

Note: Answer **any two** questions within limit of 500 words each.

10) Calculate the economic order quantity (EOQ), Acquisition cost and inventory carrying cost at EOQ and the minimum total cost for a product on the basis of following data:

Annual demand for the product = 50,000 units

Ordering cost per order = $ 12

Inventory carrying cost / order = 20% of unit cost of the product

Unit cost of the product = $ 5/unit

11) What is ISO 9000, Explain its articles and documentation procedure with reference to an industry willing to take ISO 9002.

12) Explain the procedures for maintenance management planning in a chemical industry being in charge of maintenance.

13) Discuss the recent developments in supply chain management. Support your answers with suitable examples.