



INDIAN INSTITUTE OF MATERIALS MANAGEMENT
Post Graduate Diploma in Materials Management

June 2016

Graduate Diploma in Materials Management
PAPER No. 8(New)
Operations Management

Date: 14.06.2016

Max. Marks: 100

Time: 10.00 a.m. to 1.00 p.m.

Duration: 3 Hrs.

Instructions:

1. From Part A – answer all questions (compulsory). Each sub questions carries 1 mark. **Total: 32 Marks**
 2. From Part B – Answer any 3 questions out of 5 questions. Each sub-question carries 16 marks. **Total : 48 Marks**
 3. Part C is a case study (compulsory) with questions. Read the case study carefully and answer the questions. **Total: 20 Marks**
 4. Please read the instructions given in the answer sheet.
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Part – A

32 Marks

(Attempt all questions Each sub questions carries 1 mark)

Q.1 Give the full form of

- a. LPT
- b. EDD
- c. LOB
- d. JIT
- e. TQM
- f. WWRP
- g. TLV
- h. CAM

Q.2 State True or False.

- i. Operation Design specifies production cycle time.
- ii. Annealing is a method of heat treatment.
- iii. Simulation is a forecasting method.

- iv. JIT achieves stockless production
- v. Bag filters is an equipment to control water pollution.
- vi. Diversification is a stability strategy.
- vii Genetic Algorithm is a tool for quality control.
- viii Ergonomics studies the relation between human capabilities in relation to his work.

Q. 3 Fill in the blanks.

- i. Factor Rating method help to identify correct_____.
- ii. At break-even point, profit is_____.
- iii. _____is based on biological neural network.
- iv. _____system help in JIT production.
- v. _____system has zero inventory.
- vi. Kaizen is a _____.
- vii SQC helps in _____control.
- viii Where there is life, there can be_____.

Q. 4 Match the following.

- | A | B |
|-------------------------|--------------------------|
| i. Learning Curve | a. Forecasting |
| ii. Alexander Technique | b. Machine loading chart |
| iii. Scheduling | c. Thumb operating |
| iv. Hoists | d. Quality control |
| v. Pareto analysis | e. Moving Device |
| vi. Microhipetters | f. Loading |
| vii Gant | g. Ergonomics |
| viii Time Series | h. Productivity |

Part – B

48 marks

(Answer any 3 questions out of 5 questions. Each sub-question carries 16 marks.)

Attempt any Three (16 Marks Each)

- Q. 5 Distinguish Between Forecasting and Prediction.
- Q. 6 Explain the phases of Purchase Cycle.
- Q. 7 Explain in detail Product Life Cycle.
- Q. 8 What are the objectives of Good Layout.
- Q. 9 Discuss the importance of Production Management.

Part – C

(compulsory)

Total Marks: 2 x 10 (20 marks)

Q. 10

(A)	Year	Sales
	2010	110
	2011	112
	2012	118
	2013	119
	2014	121

Find the Trend in sales and estimate the sale for 2016.

(B)	Activity	Preceding Activity	Time
	A	----	2 Minutes
	B	----	3 Minutes
	C	B	4 Minutes
	D	A,C	4 Minutes
	E	D	2 Minutes
	F	E	3 Minutes
	G	E,F	2 Minutes
	H	G,H	2 Minutes

Draw a network diagram and find the critical path.
