



INDIAN INSTITUTE OF MATERIALS MANAGEMENT

Post Graduate Diploma in Materials Management

June 2017

Graduate Diploma in Materials Management

PAPER No. 8

Operations Management

Date: 13.06.2017

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)

Q1. GIVE THE FULL FORM OF:

[8 marks]

1. SMED 2. LOB 3. LCV 4.TPM 5.MADM 6.WWTP 7.MLC 8. PLC

Q2. STATE WHETHER TRUE OR FALSE:

[8 marks]

- a) Operations Research is the same as Operations Management.
- b) Genetic Algorithm is a search technique to solve optimization problem.
- c) Polar diagram shows the difference between different products and services.
- d) ERP can be applied in any type of industry.
- e) Break even analysis is a controlled device.
- f) Fish bone diagram is given by Taylor.
- g) Kanban means a flag or signal.
- h) Kaizen refers to temporary improvement.

Q. 3 FILL IN THE BLANKS:

[8 marks]

- 1) In KAIZEN, KAI means _____.
- 2) The theory of constraint is given by _____.
- 3) Pipelines are _____ equipments.
- 4) Good housekeeping is an element of _____.
- 5) _____ provides a designed database.
- 6) _____ leads to dehumanization.
- 7) In _____ process, metal is heated to a plastic state.
- 8) _____ is a process to join non-ferrous alloys.

Q.4 MATCH THE FOLLOWING:

[8 marks]

Column A

- 1) Riveting
- 2) Sunlight
- 3) Learning Curve
- 4) Decibel
- 5) ISHIKAWA
- 6) Inspection
- 7) Core conflict
- 8) Outside supplier

Column B

- a- Cause and Effect Diagram
- b- Long term solution
- c- Preventive maintenance
- d- Ancillary development
- e- Sound pollution
- f- Experience
- g- Natural light
- h-Assembly Process

Part – B

48 marks

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

Q.5 Explain the steps which make implementation of a project less difficult.

Q.6 Explain the main variables in the operation of MRP.

Q.7 Distinguish between forecasting and prediction.

Q.8 Explain job design.

Q.9 Discuss in detail purchase cycle.

Part – C
Compulsory

20 marks

Q. 10

YEAR	SALES(Rs. In Lacs)
2012	12
2013	13
2014	15
2015	17
2016	13

Questions:

- Q1. A) Find the trend in sales.
B) Estimate the sales for 2018.

Q.11.Maximum Consumption = 10,000 Kg

Minimum Consumption = 4,000 Kg

Re-order Quantity = 15,000 Kg

Ordering Period = 3 weeks to 5 weeks

Find – 1) Re-order level

2) Maximum Stock Level

3) Minimum Stock Level

4) Average Stock Level
