



INDIAN INSTITUTE OF MATERIALS MANAGEMENT
Post Graduate Diploma in Materials Management -3 years

July 2019

Graduate Diploma in Materials Management
PAPER No. 8
Operations Management

Date: 23.07.2019

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**

Part – A

32 Marks

(Attempt all questions. Each sub question carries 1 mark)

Q1) Give the full form of

- 1) FCFS 2) EDD 3) MADM 4) PERT
5) SQC 6) SMED 7) BOM 8) WWRT

Q2) Write True or False

- 1) Time series forecasting is also known as intrinsic method.
- 2) Industrial robots are not material handling equipment.
- 3) CRAFT is a software for layout analysis.
- 4) Product layout is inflexible.
- 5) Material handling does not create place utility.
- 6) Daylight does not provide uniform lighting throughout the building.
- 7) Artificial light is less expensive.
- 8) Lathe machine is NC machine.

Q3) Fill in the blanks

- 1) MCDA is a tool for _____.
- 2) Least square method is used for _____.
- 3) Supply of air to an enclosed space is called _____.

- 4) RO plant is used for controlling _____.
- 5) CEPP is used for _____.
- 6) The more complex the life, greater is the rate of _____.
- 7) Bonus is a _____ incentive.
- 8) Basic time is observed time multiplied by _____.

Q4) Match the following

Column A	Column B
1) JIT	a) Control technique
2) SQC	b) Continuous
3) KAIZEN	c) Least inventory
4) Flowcharting	d) Quality Control
5) Allowances	e) Adopting the new
6) Time series	f) Inventory recording
7) Deming	g) Demand forecasting
8) FIFO	h) Fatigue

Part – B

48 marks

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

Q5) Write short note on any 2 of the following: (2 x 8 =16 marks)

1. JIT
2. PERT
3. SQC
4. Process Layout

Q6) Explain the important factors to be considered in Plant Layout.

Q7) Discuss in detail, the benefits of MRP.

Q8) Discuss the functions of Purchase department.

Q9) Define the term 'Productivity' and bring out its importance.

Part – C

Q.10) Case study: (compulsory)

20 Marks

Select any Chemical or Automobile or Mining Industry and explain the different Material Handling equipment used.
