



INDIAN INSTITUTE OF MATERIALS MANAGEMENT
Post Graduate Diploma in Logistics &SCM– 2years
Paper 23(Enrollment code CPS)[OFFLINE EXAM]
Production Planning and Control

Dec 2023

Date: 22.12.2023
Time: 2.00 p.m to 5.00 p.m

Max. Marks 70
Duration 3 hours

Instructions

1. Part A is compulsory. Each sub question carries one mark.
2. In Part B answer any 3 questions. Each question carries 10 marks
3. Part C is a case study with sub questions and it is compulsory.

Total marks-20
Total marks-30
Total marks-20

PART A

(20 marks)
[5 marks]

Q. 1. Fill in the blanks.

- a) To produce in right quantity and quality at right time is the main objective of ____.
- b) _____ defines production as “a process by which goods and services are created”.
- c) in case of ____ job shop, the production planning may be informal.
- d) _____ is to fix the routes/paths of various operations. Routing.
- e) MRP systems fall into ____ categories.
- f) These inventories are basically kept for future needs for the organization are ____ inventories.

Q. 2. State True or False

[5 marks]

- a) Negative inventory (zero level) is number of units backordered.
- b) Passive Forecast prediction is done under the condition of likely future changes.
- c) Maximize customer service is object of aggregate planning.
- d) Postponing delivery on current orders demand is back ordering.
- e) A level strategy implies matching demand and capacity period by period.

Q. 3. Match the following:

[5 marks]

	Column A		Column B
A	Operations Controlling	1	Cycle Time.
B	Elimination of Waste	2	Henry Fayol
C	General Purpose Machines	3	JIT as a philosophy
D	Production Rate	4	Liquidity Planning
E	Production control refers to ensuring that all which occurs is in accordance with the rules	5	Job Shop

Q.4. Expand the following:

[5 marks]

- | | | |
|--------|--------|--------|
| a) JIT | b) POU | c) TPM |
| d) WIP | e) CIS | |

PART B

[Total 30 marks]

(Answer any three. Each question carries 10 marks)

- Q.5.a) Explain the benefits of ERP and the reasons for failure. **[5 marks]**
b) What are post-implementation and would be situation? **[5 marks]**
- Q.6.a) Explain the procedure followed in production planning and control. **[5 marks]**
b) Explain inventory management and various costs associated with an inventory. **[5 marks]**
- Q.7.a) What do you understand by production and production process? Explain various production processes. **[5 marks]**
b) Discuss the Merits and Demerits of JIT. **[5 marks]**
- Q.8.a) Define scheduling and explain scheduling decisions. **[5 marks]**
b) Highlight the limitations of aggregate planning. **[5 marks]**
- Q.9. Write Short Notes any two** **[2 x 5 = 10 marks]**
A) Criteria of a Good Forecasting Method . B) Types of inventories
C) Kanban visual system. D) Batch scheduling

PART C

(20 marks)

Q.10 Case Study (compulsory)

Would a warm paraffin hand treatment during your dental cleaning or dental treatment put you at ease and make the process more bearable? That is the idea behind the new “dental spa” services opening in major cities throughout the United States. Beyond calming music and comfortable chairs and flat-screen TVs mounted on the ceiling with sound from the noise-canceling headphones that block unpleasant dental noises, at the same time foot scrubs, pedicures, or other spa services are sometimes possible. Two major trends have helped fuel the growth of dental spas: lessening of the painful associations of dentistry and the increased cosmetic focus of dentistry that goes along with other spa treatments.

Questions

1. Which one of the three new service requirements would a dental spa least likely pass: service experience fit, operational fit, or financial impact? Why?
2. What are some of the main areas of complexity and divergence in this kind of operation relative to the standard dental clinic?
