



OPERATIONS MANAGEMENT AND STRATEGIC MANAGEMENT

Time Allowed: 1 Hour

Full Marks: 100

Answer all questions. Each question carries 2 marks.

SECTION – A (Compulsory)

1. Choose the correct option:

[15 x 2 =30]

- i. One of the requirements of Aggregate Planning is:
 - a. Output and sales should be expressed in a logical overall unit of measuring
 - b. Appropriate time period
 - c. List of all resources available
 - d. List of operations required

- ii. For Quality Assurance in Production and Installation the _____ model is be used.:
 - a. ISO 9001
 - b. ISO 9002
 - c. ISO 9003
 - d. None of the above

- iii. A cement factory in Madhya Pradesh works 7 days a week in 3 shifts per days having maintenance in the first shift of around 2 hours. It has roughly 100 workers which produces only pozzolanic properties cement better known as PPC. The output per month is around 2500 tonnes of PPC. Find the productivity per worker?
 - a. 20 tonnes
 - b. 30 tonnes
 - c. 25 tonnes
 - d. 15 tonnes

- iv. Which of the following is not project quality management?
 - a. Quality Definition
 - b. Quality Assurance
 - c. Quality Control
 - d. Quality Inspection



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- v. The event from where more than one activity starts:
- Merge event
 - Brust Event
 - start event
 - event nodes
- vi. The critical path analysis is an important tool in production planning and _____:
- Loading
 - scheduling
 - Routing.
 - All the above
- vii. One of the important charts used in programme control is:
- Material chart
 - Gantt chart
 - Route chart
 - Inspection chart
- viii. Which one of the following is NOT the advantage of Preventive Maintenance?
- Better product quality
 - Greater safety to workers
 - Increased breakdowns and downtime
 - Fewer large-scale repairs
- ix. One of the objectives of maintenance is:
- to prevent obsolescence
 - to ensure spare parts management
 - to satisfy customers
 - to extend the useful life of Plant & Machinery without sacrificing the level of performance
- x. In some case the _____ and inconvenience due to breakdown of equipment is so high that standby equipment is kept:
- Cost



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- b. Loss
 - c. Time
 - d. Interval
- xi.** Which of the following is correct about Red Ocean Strategy:
- a. Exploit existing demand
 - b. Create and capture new demand
 - c. Create uncontested markers to serve
 - d. Align the whole system of a firm's activities in pursuit of differentiation and low cost.
- xii.** Which among the following is incorrect lyre of organisational structure?
- a. Value
 - b. Beliefs
 - c. Behaviours
 - d. Objective
- xiii.** In SMART goal framework 'A' consist of:
- a. Advanced
 - b. Ambitious
 - c. Attainable
 - d. Assessable
- xiv.** A company develops a new recycling process to reduce waste. Which PESTEL factor is it responding to?
- a. Environmental
 - b. Technological
 - c. Economic
 - d. Political
- xv.** Which among the following is true?
- a. BPR has resulted in major gains in efficiency
 - b. BPR has resulted in major gains in speed
 - c. BPR has resulted in major gains in quality
 - d. BPR has resulted in gains in efficiency, quality and speed



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Section – B

(Answer any five questions out of seven questions given. Each question carries 14 Marks)

[5 x 14 = 70]

2. (a) What are the characteristics of Modern Operations Function? [7]

(b) Explain the different stages of product life cycle. [7]

3. (a) A Public transport system is experiencing the following number of breakdowns for months over the past 2 years in their new fleet of vehicles:

Number of breakdowns	0	1	2	3	4
Number of months this occurred	2	8	10	3	1

Each break down costs the firm an average of ₹2,800. For a cost of ₹ 1,500 per month, preventive maintenance can be carried out to limit the breakdowns to an average of one per month. Calculate which policy is suitable for the firm? [7]

(b) With the help of following data project illustrate the trend of sales for the next five years:

Years	2018	2019	2020	2021	2022	2023
Sales (in lakhs)	100	110	115	120	135	140

4. (a) A captain of a cricket team has to allot five middle batting positions to five batsmen. The average runs scored by each batsman at these positions are as follows:

Batting Position						
Batsmen		III	IV	V	VI	VII
	A	40	40	35	25	50
	B	42	30	16	25	27
	C	50	48	40	60	50
	D	20	19	20	18	25
	E	58	60	59	55	53

Prepare the assignment so that the expected total average runs scored by these batsmen are maximum.

[7]



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(b) Wanda's Car Wash & dry is an automatic, five-minute operation with a single bay. On a typical Saturday morning, cars arrive at a mean rate of eight per hour, with arrivals tending to follow a Poisson distribution. Calculate:

- I. The average number of cars in line.
- II. The average time cars spend in line and service.

[7]

5. (a) A pension fund manager is considering investing in two shares A and B. It is estimated that:

- (i) Share A will earn a dividend of 12% per annum and share B 4% per annum.
- (ii) Growth in the market value in one year of share A will be 10 paise per ₹1 invested and in B 40 paise per ₹1 invested.

He requires investing the minimum total sum which will give:

Dividend income of at least ₹600 per annum and growth in one year of at least ₹1,000 on the initial investment.

You are required to:

Prepare the mathematical formulation of the problem which will facilitate computation of the minimum sum to be invested to meet the manager's objective. [7]

(b) Prepare the network diagram for the following activities and identify critical path and total duration of project.

Activity	Duration (months)	Activity	Duration (months)
1-2	2.5	4-5	2.0
2-3	2.5	5-6	3.0
2-4	1.5	6-7	1.5
3-4	1.0	5-7	1.5
3-5	1.0		

[7]

6. (a) Explain Balanced score card and what are the different perspectives of Balanced score card. [7]

(b) Explain the demerits of Big Data. [7]

7. (a) Discuss value chain. What are the primary and secondary activities? [7]

(b) Examine the steps involved in strategic planning. [7]

8. (a) Discuss the nine-design test on structural solutions. [7]

(b) Analyze the traditional and contemporary approach of strategic control. [7]



INTERMEDIATE EXAMINATION

SET 2

MODEL QUESTION PAPER

TERM – DECEMBER 2025

PAPER – 9

SYLLABUS 2022

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