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II Semester M.B.A. (Day and Eve.) Degree Examination, December - 2023

MANAGEMENT

Entrepreneurship and Start-ups Management

(CBCS Scheme, 2019 onwards)

Paper : 2.1

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Time : 3 Hours **Maximum Marks : 70**

SECTION - A

Answer any Five questions from the following. Each question carries 5 marks. **(5×5=25)**

1. What do you mean by entrepreneurship? Explain the characteristics of entrepreneurs?
2. What is meant by Idea generation process and mention the techniques of Idea generation?
3. Explain different types of entrepreneurs.
4. What is feasibility study? Explain different types of feasibility study.
5. Write a note on sources of finance for new ventures.
6. What is business ethics? What are the important elements of business ethics?
7. Explain who are Next generation entrepreneurs.

SECTION - B

Answer any Three questions from the following. Each question carries 10 marks. **(3×10=30)**

8. Write a note on myths and reality of entrepreneurship.
9. What is a business plan? Explain the contents of a business plan in detail.
10. Explain stand up India and make in India.
11. Explain the role of entrepreneurship in the economic development of a country.

[P.T.O.

SECTION - C

CASE STUDY (Compulsory Question) **(1×15=15)**

12. Andrew, a recent MBA graduate, is passionate about sustainability and decides to launch a renewable energy startup that specializes in affordable solar energy solutions for rural communities. With a comprehensive business plan and a clear vision, Andrew embarks on the journey of establishing his venture. However, he encounters a multitude of challenges, including securing funding, navigating government regulations, and building a sustainable business model in the renewable energy sector.

Questions:

a) Draft a feasibility study for Andrew's startup.

b) Formulate a robust financial management plan that Andrew can implement to secure both initial and long-term funding for his renewable energy startup.

c) Emphasize the ethical and environmentally friendly aspects of his renewable energy startup to attract conscious consumers.

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II Semester M.B.A (Day and Evening) Degree Examination, December - 2023

MANAGEMENT

PRODUCTION AND OPERATIONS RESEARCH

(CBCS Scheme 2019 Onwards)

Paper : 2.6

Time : 3 Hours **Maximum Marks : 70**

SECTION - A

Answer any Five questions from the following. Each question carries 5 marks. **(5×5=25)**

1. Explain the factors influencing facility location decision.
2. Explain the importance of EOQ.
3. Write a short note on Breakdown maintenance.
4. Bring out the differences between PERT and CPM.
5. A ready-made garments manufacturer has to process 7 items through two stages of production, viz, cutting and sewing. The time (Hours) taken by each of these items at different stages is given below.

		Processing time	
		Cutting	Sewing
Items	1	5	2
	2	7	6
	3	3	7
	4	4	5
	5	6	9
	6	7	5
	7	12	8

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Find an order in which these items are to be processed so as to minimize the total processing time.

6. A Steel company has three open-hearth furnaces and four rolling mills. Transportation cost (Rs/quintal) for shipping steel from furnaces to rolling mills are shown in the following table.

		TO				
		P	Q	R	S	Supply
From	A	12	10	12	13	500
	B	7	11	8	14	300
	C	6	16	11	7	200
	Demand	180	150	350	320	1000

What is the optimum shipping schedule?

[P.T.O.

7. Solve the following linear programming using graphical method.

Maximize $Z = 40\,x_1 + 35\,x_2$

Subject to, $2x_1 + 3x_2 \leq 60$

$4\,x_1 + 3x_2 \leq 96$

$x_1, x_2 \geq 0$

SECTION - B

Answer any Three questions from the following. Each question carries 10 marks. **(3×10=30)**

8. Briefly explain the types of Production Systems.

9. A Project schedule has the following characteristics;

Activity	1-2	2-3	1-3	2-6	3-4	2-4	4-7	4-5	6-7	5-7
Duration	4	2	2	6	8	4	2	5	8	2

a) Construct a network diagram

b) Determine the critical path

c) Obtain earliest starting and latest finishing time

10. Using the following Cost matrix, determine Optimal job assignment and cost of assignment.

Machinist \ Jobs	1	2	3	4	5
A	10	3	3	2	8
B	9	7	8	2	7
C	7	5	6	2	4
D	3	5	8	2	4
E	9	10	9	6	10

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11. Solve the following LPP Simplex method;

Maximize $Z = 5x_1 + 10x_2 + 8x_3$

Subject to; $3x_1 + 5x_2 + 2x_3 \leq 60$

$4x_1 + 4x_2 + 4x_3 \leq 72$

$2x_1 + 4x_2 + 5x_3 \leq 100$

$x_1, x_2, x_3 \geq 0$

SECTION - C

12. **Compulsory Case Study:** **(1×15=15)**

Solve the following transportation problem by VAM and apply MODI method to test its optimality.

From \ To	Project A	Project B	Project C	Plant Capacity
Plant W	4	8	8	56
Plant X	16	24	16	82
Plant Y	8	16	24	77
Total Required	72	102	41	215