उत्तर प्रदेश राजर्षि टण्डन मुक्त विश्वविद्यालय, इलाहाबाद

Note: Long Answer Questions. Answer should be given in 800 to 1000 words each. Answer all questions. All questions are compulsory.

Section- A
खण्ड–अ

अधिकतम अंक : **18**
Maximum Marks: 18

1. What is operations research? Explain its techniques and approaches

Or

a) Describe the role of Linear Programming in managerial decision making. Discuss its benefits and shortcomings.
(b) Solve the following LPP using Simplex method:
Maximize $Z = 16X_1 + 17X_2 + 10X_3$
Subject to :
$X_1 + X_2 + 4X_3 < 2000$
$2X_1 + X_2 + X_3 < 3600$
$X_1 + 2X_2 + 2X_3 < 0$

Or

a) What are the advantages and disadvantages of simulation? Describe the Monte Carlo method of simulation.
b) In a game of matching coins, player A wins Rs 2 if there are two heads, wins nothing if there are two tails and loses Rs. 1 when there are 1 head and 1 tail. Determine the payoff matrix the best strategies for each player and the value of game A.

2. What is Probability? Explain Bayes Theorem

Or

a) State a transportation problem in general terms and explain the problem of degeneracy.
(b) Solve the following transportation problem :

	D1	D2	D3	D4	Supply

S1	19	30	50	10	7
S2	70	30	40	60	9
S3	40	8	70	20	18
Demand	5	8	7	14	34

Or

a) Write the mathematical formulation for the assignment problems?

b) Solve the following Non linear programming problem.

Maximize $Z = 4x_1 + 6x_2 - 2x_2 - 2x_1x_2 - 2x_2^2$

s.T $x_1 + 2 x_2 = 2$

and $x_1, x_2 \geq 0$

3. What is linear programming?

Or

a) Name any three methods of finding initial basic feasible solution for transportation problems. Which one of them is the best and why?

b) Consider the following unbalanced transportation problem.

Designations

1   2   3   supply

	1	5	1	7	10
Source	2	6	4	6	80
	3	3	2	5	15
Demand		75	20	50	

Since there is not enough supply, some of the demands at destination may not be satisfied. Suppose there are penalty costs for every unsatisfied demand. Demand unit which are given by 5, 3 and 2 for destination 1, 2, and 3 respectively. Find the optimal solution.

Or

What do you understand by product Design? Explain various product design related concepts with suitable examples.

Section- B
खण्ड—ब

अधिकतम अंक : **12**

Maximum Marks: 12

Note: Short Answer Questions. Answer should be given in 200 to 300 words each. Answer all questions. All questions are compulsory.

4. What are the reasons of using simulation?

Or

Define a queue and explain the various queue disciplines.

Or

What are in characteristics of project process? Explain.

5. Explain characteristics of queuing model?

Or

Discuss inventory models with probabilistic demand.

Or

How will you go in for selection of process?

6. Explain essential requirement for inventory control?

Or

Write short notes on two persons zero sum game.

Or

What are the various steps involved in the facility location?

7. Write a note on simplex method.

Or

Explain application areas of goal programming.

Or

What are the various types of layout problems?

8. Elucidate game theory?

Or

What is the importance of Game Theory?

Or

Explain computerized layout planning in brief.

9. Explain goal programming?

Or

List two applications of dynamic programming.

Or

Explain about various materials handling equipment.

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अधिन्यास (Assignment)   2017-2018

Master of Business Administration (MBA)

विषय	: प्रबन्धन	विषय कोड	: पीजीडीपीएम
Subject	: Management	Subject Code :	PGDPM
कोर्स शीर्षक	:	कोर्स कोड	: पीजीडीपीएम.–02
Subject Title	: Project Management		PGDPM-02

अधिकतम अंक : **30**
Maximum Marks: 30

Note: Long Answer Questions. Answer should be given in 800 to 1000 words each. Answer all questions. All questions are compulsory.

Section- A

खण्ड–अ

अधिकतम अंक : **18**
Maximum Marks: 18

1. How can computers help in monitoring and controlling of projects? Take any network and develop the computer inputs required for its computerization.

   Or

   Explain any one discounted cash flow technique of investments appraisal in detail. Give two advantages and two limitations of chi- technique.

   Or

   Discuss in detail Feasibility and Technical Analysis of the Project Development.

2. "Management of materials and equipment forms the core of project management" Comment

   Or

   Outline the project form of organization structure what advantages does such structure offer over conventional organizational structures?

   Or

   Explain costing of projects and discuss various sources of projects financing.

3. Discuss the methods of financial evaluation of the projects. What according to you are the critical success factors in project management?

   Or

   Why are the stages of project evaluation and review essential for successful project implementation?

Or

Discuss in detail Project Management Information System and discuss its components.

Section- B

खण्ड—ब

अधिकतम अंक : 12

Maximum Marks: 12

Note: Short Answer Questions. Answer should be given in 200 to 300 words each. Answer all questions. All questions are compulsory.

4. Write a note on human resource management in projects.

Or

List four characteristics of a good forecasting technique.

Or

Explain techniques of Demand Forecasting with the help of suitable examples.

5. What can be sources of long-term funding for an infrastructure project? Discuss any two.

Or

List the considerations involved in deciding the location of:
(i) A hospital (ii) A cements plant.

Or

Explain Network Analysis with the help of network flowcharts and diagrams of projects.

6. Briefly explain the concept of an integrated project management system.

Or

List various objectives of Integrated Project Management System.

Or

Prepare a layout of a project and discuss its components.

7. What are the phases of project life cycle? Give the salient task under each phase.

Or

What can be sources of long-term funding for an infrastructure project? Discuss any two.

Or

Discuss Success factors in project management.

8. What quality control methods are prevalent in project management?

Or

What role does computer software play in control of projects? Name some software packages used in project management.

Or

What are the factors affecting control of project cost and explain briefly Approaches to cost control.

9. What role does computer software play in control of projects? Name some software packages used in project management.

Or

Write a note on human resource management in projects.

Or

Explain the procedures for project co-ordination.

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Master of Business Administration (MBA)

विषय	: प्रबन्धन	विषय कोड	: पीजीडीपीएम.–03
Subject	: Management	Subject Code	: PGDPM
कोर्स शीर्षक	:	कोर्स कोड	: पीजीडीपीएम.–03
Subject Title	: Management of Machines and Materials.	Course Code	: PGDPM-03

अधिकतम अंक : **30**
Maximum Marks: 30

Note: Long Answer Questions. Answer should be given in 800 to 1000 words each. Answer all questions. All questions are compulsory.

Section- A
खण्ड–अ

अधिकतम अंक : **18**
Maximum Marks: 18

1. What is production? Define production management, its objectives with its importance?

   Or

   Explain system concept of operation management? Also explain objectives of Production Management.

   Or

   List and explain the features of continuous flow production processes. In which types of production are they applied? Give an example.

2. What do you understand by the concept of inventory? Define EOQ. (Economic Order Quality)

   Or

   What are various kinds of production system? Explain with suitable examples.

   Or

   What is job design? Explain the factors that influence job design.

3. Why the concept of value engineering is gaining popularity in now a days? Also define its various benefits in detail.

   Or

   What do you understand by product Design? Explain various product design related concepts with suitable examples.

   Or

   Explain the concept of Value Engineering. List its benefits.

Section- B
खण्ड–ब

अधिकतम अंक : **12**

Note: Short Answer Questions. Answer should be given in 200 to 300 words each. Answer all questions. All questions are compulsory.

4. What do you mean by continues flow production technique?

   Or

   What are in characteristics of project process? Explain.

   Or

   Write a note on Programme Evaluation and Review Techniques (PERT).

5. What is batch production process?

   Or

   How will you go in for selection of process?

   Or

   Identify the activities performed by the purchasing department.

6. What is job design? How it is different from job description.

   Or

   What are the various steps involved in the facility location?

   Or

   List four factors influencing layout decisions.

7. Differentiate between PERT & CPM?

   Or

   What are the various types of layout problems?

   Or

   What do you understand by Assembly Line Balancing? List any one technique of Assembly Line Balancing.

8. What is job-rotation concept

   Or

   Explain computerized layout planning in brief.

   Or

   What rules of scheduling are applicable in case of job-shop production?

9. List various conditions of job-shop production technique. Implementation?

   Or

   Explain about various materials handling equipment.

   Or

   What is implied by Selective Inventory Management? Explain one technique of selective inventory management.

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विषय	: प्रबन्धन	विषय कोड	: पीजीडीपीएम
Subject	: Management	Subject Code	: PGDPM
कोर्स शीर्षक	:	कोर्स कोड	: पीजीडीपीएम–04
Subject Title	: Management of new And Small Enterprises	Course Code	: PGDPM-04

अधिकतम अंक : 30
Maximum Marks: 30

Note: Long Answer Questions. Answer should be given in 800 to 1000 words each. Answer all questions. All questions are compulsory.

Section- A
खण्ड–अ

अधिकतम अंक : 18
Maximum Marks: 18

1. Explain the main characteristics of SSE's in U.P.

   Or

   Which Characteristics of small scale enterprises enable them to contribute them to contribute to the economic development process in a developing country like India? Discuss.

   Or

   Examine the role and relevance of small scale enterprises in the economic development of the country.

2. What is MUDRA BANK? How it is helpful for small entrepreneurs?

   Or

   What are the main techniques utilized for opportunity scanning and identification? Supplement your answer with suitable examples.

   Or

   How would you use SWOT analysis to identify opportunities for small scale enterprises/self employment? Discuss with examples.

3. What are the implications of 'marketing orientation' on the process of product selection? Discuss.

   Or

   What are the implications of marketing orientation on the process of product selection? Discuss.

   Or

   What are the basic steps in system of bringing a product/service from an idea to a finished product/service?

Section- B
खण्ड–ब

अधिकतम अंक : **12**
Maximum Marks: 12

Note: Short Answer Questions. Answer should be given in 200 to 300 words each. Answer all questions. All questions are compulsory.

4. Why SSE's are important in make in U.P economy?

Or

State the main characteristics of small scale enterprises.

Or

Discuss the importance of small scale enterprises.

5. List various promotional schemes launched by UP Government for SSE's?

Or

What are the main problems of SSEs.

Or

Describe in brief the process of development of entrepreneurial competencies.

6. What is SIDBI? List its various functions.

Or

What do you mean by entrepreneurial competencies?

Or

What is the role of SIDBI?

7. How you will define break even analysis?

Or

Write a short note on SIDBI.

Or

What are the main techniques of opportunities scanning?

8. Describe the marketing related problems of SSE's.

Or

What are the main sources of financing for small entrepreneur?

Or

What do you mean by the market demand analysis?

9. List various sources of finance for SSE's ?

Or

List objectives of is break-even analysis?

Or

What are the main considerations to be kept in mind while selecting the site of a small business?

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विषय	: प्रबन्धन	विषय कोड	: पीजीडीपीएम
Subject	: Management	Subject Code	: PGDPM
कोर्स शीर्षक	:	कोर्स कोड	:पीजीडीपीएम.—05
Subject Title	: Production/Operation Management	Course Code	: PGDPM-05

अधिकतम अंक : 30
Maximum Marks: 30

Note: Long Answer Questions. Answer should be given in 800 to 1000 words each. Answer all questions. All questions are compulsory.

Section- A
खण्ड—अ

अधिकतम अंक : 18
Maximum Marks: 18

1. Write a short essay on operations management?

   Or

   Explain the scope and significance of production and operations management?

   Or

   What do you mean by Inventory Management? Discuss the objectives of inventory control and the costs associated with it.

2. Explain the relevance of production management?

   Or

   What are various kinds of production system? Explain with suitable examples.

   Or

   Discuss planning and control in mass production and batch production.

3. What is total quality management?

   Or

   What do you understand by product Design? Explain various product design related concepts with suitable examples.

   Or

   What do you understand by the term Operation Management? Explain operations management process in manufacturing sector with an example?

Section- B
खण्ड—ब

अधिकतम अंक : 12
Maximum Marks: 12

Note: Short Answer Questions. Answer should be given in 200 to 300 words each. Answer all questions. All questions are compulsory.

4. Why is forecasting done in production management?

Or

What are in characteristics of project process? Explain.

Or

Explain the factors affecting plant location.

5. What is judgmental forecasting?

Or

How will you go in for selection of process?

Or

Briefly discuss the various elements of quality management.

6. Explain the importance of Delphi method?

Or

What are the various steps involved in the facility location?

Or

Distinguish between work measurement and work study.

7. What is just-in-time method?

Or

What are the various types of layout problems?

Or

Define productivity with an example.

8. Explain plant layout?

Or

Explain computerized layout planning in brief.

Or

What is the need of forecast of production and operation management?

9. What is material requirement planning?

Or

Explain about various materials handling equipment.

Or

Write a short note on fixed position layout.