Master of Commerce 1ˢᵗ Semester

(2123)

MANAGERIAL ECONOMICS (Same for USOL Candidates)

Paper—M.C. -101

Time Allowed : Three Hours]   **[Maximum Marks : 80**

Note :— Attempt **five** questions in all, selecting at least one question from each unit. All questions carry equal marks.

UNIT–I

I.   Define Managerial Economics & explain its relationship with other disciplines.

II. Explain profit maximization goal of the firm. What are its merits & demerits ?

III. Write notes on the following :

(a) International Framework of Managerial Economics

(b) Constraints on the operation of the firms.

UNIT–II

IV. Discuss with the help of diagrams :

(i)   Extension & Contraction in demand, and

(ii) Increase & Decrease in demand.

V. What do you understand by Revealed Preference Theory of consumer behavior ? What are its weak & strong axioms ? Derive the demand curve through revealed preference analysis.

UNIT–III

VI. Define Monopolistic Competition. Why is it called 'monopolistic' ? Explain the equilibrium of a firm in the short-run & long-run under monopolistic competition.

VII. What is Price Discrimination ? What are the conditions for the existence of price competition ? Explain the first, second & third degrees of price discrimination by a firm.

VIII. Critically examine Newmann-Morgenstern Utility Index in risky situations.

UNIT–IV

IX. Discuss the impact of technological change on productivity of labour.

X. Write notes on the following :

   (a) Technological Change and Industrial Innovation

   (b) Technological Environmental Forecasting.

Note :—Students are required to attempt **FIVE** questions in all, selecting at least **ONE** question from each unit. All questions carry equal marks.

UNIT—I

1. (a) Explain Binomial distribution and its properties.

    (b) A manufacturing firm produces steel pipes in three plants with daily production volumes of 500, 1000, 2000 units respectively. According to past experience, it is known that the fractions of defective output produces by three plants are respectively 0.005, 0.008, 0.010. If a pipe is selected from day's total production and found to be defective, find the probability that it came from the first plant.

2. (a) Explain Poisson distribution and its uses and properties.

    (b) As a result of tests on 20,000 electric bulbs manufactured by a company it was found that the life time of a bulb was normally distributed with an average life of 2040

hours and standard deviation of 60 hours. On the basis of the information, estimate the number of bulbs that is expected to burn for (i) more than 2150 hours, and (ii) less than 1960 hours.

3. (a) Explain normal distribution and its properties.

    (b) Fit a binomial distribution of the following data :

x	0	1	2	3	4
f	28	62	46	10	4

UNIT—II

4. (a) Explain point estimates and interval estimates with suitable example.

    (b) Explain standard error and level of significance with graph and example.

5. (a) Explain central limit theorem and its utility.

    (b) A population consists of five values :

    3, 4, 5, 6 and 7. List all possible samples of size 3 without replacement from this population and calculate the mean $\overline{x}$ of each sample. Verify that sample mean $\overline{x}$ is an unbiased estimate of the population mean.

6. (a) Explain estimation theory and properties of a good estimator.

    (b) A random sample of 900 workers in a steel plant showed an average height of 67 inches with a standard deviation of 5 inches.

    (i) Establish a 95% confidence interval estimate of the mean height of all the workers at the steel plant.

    (ii) Establish a 99% confidence interval estimate of the mean height of all the workers at the steel plant.

UNIT—III

7. (a) A coin is tossed 100 times under identical conditions independently yielding 30 heads and 70 tails. Test at 1% level of significance whether or not the coin is unbiased.

(b) A random sample of 9 boys had heights (inches) : 45, 47, 50, 52, 48, 47, 49, 53 and 51. In the light of the data, discuss the suggestion that the mean height in the population is 47.5.

(Given the table value of t for 8 d.f. at 5% level = 2.306).

8. (a) A certain medicine given to each of the 9 patients resulted in the following increase in blood pressure : 7, 3, –1, 4, –3, 5, 6, –4, –1.

Can it be concluded that the medicine will, in general, be accompanied by an increase in blood pressure ? (Given $t_{05}(8) = 2.0306$)

(b) A company appoints four salesmen A, B, C and D and observes their sales in three seasons in summer, winter and monsoon. The figure (in lakhs) is given in the following tables :

Seasons	Salesmen			
	A	B	C	D
Summer	36	36	21	35
Winter	28	29	31	32
Monsoon	26	28	29	29

Do the salesmen differ significantly in their performance ?

UNIT—IV

9. (a) Explain the following terms in the context of SQC :

(i) Control unit

(ii) Decisions tree analysis.

(b) A machine is set to deliver packet of a given weight. 10 samples of size 5 each were recorded in the data given below :

Sample No.	1	2	3	4	5	6	7	8	9	10
Mean $\overline{x}$	15	17	15	18	17	14	18	15	17	16
Range	7	7	4	9	8	7	12	4	11	5

Construct the mean chart and Range Chart and comment on state of control. (Conversion Factors for n = 5 are $A_2 = 0.577$, $D_3 = 0$, $D_4 = 2.115$)

10. (a) Explain Mean and Range charts and their assumption. Use suitable examples to justify your answer.

(b) The number of defective needles of sewing machine has been given in the following table on the basis of daily inspection. Prepare "p-chart" and state whether the production process is in control.

Day	No. of needles inspected	No. of defective needles
1	90	5
2	60	12
3	70	7
4	100	3
5	120	6
6	50	5
7	100	10
8	110	6
9	100	8
10	100	25

(i) **Printed Pages : 2**   Roll No. ....

(ii) **Questions**   : 10   **Sub. Code :** | 3 | 8 | 0 | 3 |

Exam. Code : | 0 | 5 | 0 | 1 |

Master of Commerce 1ˢᵗ Semester

(2123)

MODERN ACCOUNTING THEORY & REPORTING PRACTICES (Same for USOL Candidates)

Paper—M.C. -103

Time Allowed : Three Hours]   **[Maximum Marks : 80**

Note :— Attempt **five** questions in all, selecting at least one question from each unit. Each question carries equal marks.

UNIT–I

1. Write a detail note on the progress and need of harmonization in accounting.

2. Explain the provision of IFRS 1 regarding first time adoption of IFRS ?

3. What are the qualitative characteristics of a financial statement ? What are the objectives of financial statements ?

UNIT–II

4. Explain the accounting treatment of construction contracts as per IAS 11 ?

5. What are the provisions regarding accounting of agriculture income as per IAS 41 ?

UNIT–III

6. Differentiate between EPS and Diluted EPS. Explain the calculation of EPS and Diluted EPS as per IAS 33.

7. What is the relevence of preparing interim financial reporting ? Write down the scope, significance and content of an interim financial report.

8. Explain the provisions of IFRS 8 regarding operating segment.

UNIT–IV

9. Prepare a cash flow statement as per IAS 7 with imaginary figures.

10. Differentiate between Proportionate Consolidation Method and Equity Method.

Master of Commerce 1ˢᵗ Semester

(2123)

ORGANISATION THEORY AND BEHAVIOUR

(Same for USOL Candidates)

Paper—M.C. -104

Time Allowed : Three Hours]   **[Maximum Marks : 80**

Note :— Attempt **five** questions in all, selecting at least one question from each unit.

UNIT–I

1. Critically evaluate the contributions of classical and new classical thinkers to organizational theory. Which one do you think is more relevant today and why ? Explain.

2. What do you understand by personality ? Discuss the big five theory of personality and its relevance in understanding individual personality.

3. Organizational restructuring has been become a norm of today. Explain with special reference to tall and flat structures in organizations today, which one is more productive and why ? Explain.

UNIT–II

4. Outline the significance of contemporary theories of motivation for today's Gen Z employees in the organization.

5. Explain the prerequisites of an effective decision-making process in an organization.

6. Communication is the core of organizational effectiveness and productivity. Do you agree with the statement ? Explain with examples.

UNIT–III

7. Only leader effective organizations can become great organizations. Do you agree with the statement ? Give your viewpoint.

8. What do you understand by transactional analysis ? Outline its importance in improving inter personal relations in the organizations.

UNIT–IV

9. Outline the prerequisites of a good organizational culture.

10. Managing stress is a big challenge in today's organizations. Do you think so ? Outline the strategies for managing stress in organizations.

Master of Commerce 1ˢᵗ Semester

(2123)

MANAGEMENT INFORMATION SYSTEM

(Same for USOL Candidates)

Paper : M.C.-106

Time Allowed : Three Hours]   **[Maximum Marks : 80**

Note :—Attempt any **FIVE** questions. **ONE** question from each

unit is compulsory.

UNIT—I

1. Define MIS and discuss its evolution.   16

2. Explain in detail the Law of Requisite Variety.   16

3. Highlight the relationship between :

    (i) MIS and Management Accounting

    (ii) MIS and Computer Science

    (iii) MIS and OR.   16

4. Explain functional subsystems with suitable examples. 16

5. Write short notes on the following :—

    (i) Formal information system

    (ii) Public information system

    (iii) Task control. 16

UNIT—III

6. Explain the role of TPS in Business System. 16

7. Explain the components and benefits of DSS. 16

UNIT—IV

8. Explain in brief the concept of ERP and discuss its evolution.

    16

9. Explain the information system threats. 16

10. What are the stages of System Development Life Cycle ?
What are its advantages and disadvantages ? 16

Roll No. ....

Sub. Code : | 3 | 8 | 0 | 7 |

Exam. Code : | 0 | 5 | 0 | 1 |

Master of Commerce 1st Semester

(2123)

IT APPLICATIONS IN COMMERCE

(For USOL Candidates Only)

Paper—M.C.-107 A

Time Allowed : Three Hours]   [Maximum Marks : 80

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each Section.

SECTION–A

1. What is the role of Quantitative Analysis in decision making ? Discuss some techniques. List the important steps in making a business model.   16

2. Describe some application areas in which management science is used and how is it applied ? List its benefits.   16

SECTION–B

3. Discuss formula creation in a spreadsheet. What is a finance formula ? Explain the roles of finance functions with example.   16

4. Describe the common elements of an Excel chart. Which chart can be used for trend analysis ? Discuss with example.   16

SECTION–C

5. Describe methods of financial forecasting. What is the role of accounting ratios in forecasting financial statements ? How do IRR and MIRR differ ?   16

6. Answer the following :

   (a) Describe common techniques of inventory control.

   (b) What are the features of a Pivot Table ? List two benefits of pivot tables.

   (c) Why is higher NPV considered better ? What is NPV sensitive to ?

   (d) How do you create a scenario ?   16

7. (a) What are the components of Break even analysis and why is it called break-even ?

   (b) What are leasing strategies ? List the factors influencing leasing decision over buying.   8+8

SECTION–D

8. What are the rules of data normalization ? Explain 2nd and 3rd normal form with example.   16

9. What are the steps to build the data-warehouse ? What is the role of clustering in Data Warehousing ?   16

10. Write short notes on :

    (a) Hierarchical model

    (b) Techniques of Data Mining

    (c) Roles of DBA

    (d) Types of relationships in a database.   16