

SCHOOL OF DISTANCE EDUCATION: ANDHRA UNIVERSITY
P.G. DIPLOMA IN MANAGEMENT
ASSIGNMENT QUESTION PAPER (2020-21)

PAPER-I: MANAGEMENT PROCESS AND BEHAVIOUR

Answer all the Questions

(20 Marks)

Assignment 1

1. Briefly describe the functions of Management.
2. Explain the Planning process.
3. Distinguish between Delegation and Decentralization of authority.
4. “Motivation is based on rewards”, explain the statement and discuss various types of motivators.
5. What are the benefits and limitations of OD?

Assignment 2

1. Explain the different levels in management and how the scope of authority and responsibility varies from one level to another.
2. Explain the steps involved in the rational Decision-Making process.
3. What do you mean by Span of Control? Examine the traditional as well as modern view points on the Span of Control.
4. Explain the perceptual process and the factors influencing the Perception.
5. “Change is basically positive”. Discuss the pros and cons of this statement.

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PAPER-II: QUANTITATIVE TECHNIQUES FOR MANAGERIAL DECISIONS

Answer all the Questions

(20 Marks)

Assignment 1

- Q 1 (a) Define a matrix and write about 4 types of matrices.
 (b) Solve the following system of equations by using the inversion method.

$$\begin{aligned} 5x - 6y + 4z &= 15 \\ 7x + 4y - 3z &= 19 \\ 2x + y + 6z &= 46 \end{aligned}$$
- Q 2 (a) (i) Derive the procedure for finding out the derivative of a continuous function.
 (ii) If $y = x^{x^x}$, find $\frac{dy}{dx}$
 (iii) If $p = 12 - 3x$ is a demand function and $A = 2x$ is an average cost function of a monopolist, find the equilibrium output and price. Also find the maximum profit.
- (b) Evaluate: (i) $\int \frac{dx}{\sqrt{2x+3}\sqrt{2x-3}}$ (ii) $\int e^x \left(\frac{x+2}{(x+3)^2} \right) dx$ (iii) $\int x^4 (\log_e x)^2 dx$
- Q 3 (a) Briefly explain the Requisites of a Good Average.
 (b) Two brands of Tyres are tested with the following results:
- | Brand of Tyres | Life (in 000 miles) | | | | |
|----------------|---------------------|-------|-------|-------|-------|
| | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 |
| X | 1 | 22 | 64 | 10 | 3 |
| Y | 0 | 24 | 76 | 0 | 0 |
- (i) Which brand of Tyres have greater average life?
 (ii) Compare the variability and state which brand of Tyres would you use on your fleet of trucks?
- Q 4 (a) Portray the complete picture of the Bayes' Theorem.
 (b) In a bolt factory, machines A, B and C manufacture respectively 25%, 35% and 40%. Of the total of their output 5, 4 and 2 percent are defective bolts. A bolt is drawn at random from the product and is found to be defective. What is the probability that it was manufactured by machines A, B and C?
- Q 5 (a) Elucidate about the "Attributes".
 (b) A wholesaler in apples claims that only 4% of the apples supplied by him are defective. A random sample of 600 apples contained 36 defective apples. Is the claim of the wholesaler tenable?

Assignment 2

Q 1 (a) Narrate explicitly the relationship between correlation and regression.

(b) In a partially destroyed laboratory record of an analysis of correlation data, the following results only are legible:

Variance of $X = 9$

Galton's equations: $8X - 10Y + 66 = 0$

$40X - 18Y = 214$

Find on the basis of the above information

- (i) the mean value of X and the mean value of Y .
- (ii) coefficient of correlation between X and Y and
- (iii) Standard deviation of Y .

Q 2 (a) Elucidate about the Bernoulli Distribution.

(b) The incidence of a certain disease is such that on the average 20% of the workers suffer from it. If 10 workers are selected at random, find the probability that (i) exactly 2 workers suffer from the disease (ii) not more than 2 workers suffer from the disease.

Q 3 (a) What are the properties and uses of Normal Distribution?

(b) The average monthly sales of 5000 firms are normally distributed.

Its mean and standard deviation are Rs.36, 000 and Rs.10, 000 respectively. Find

- (i) the number of firms the sales of which are over Rs.40, 000.
- (ii) the percentage of firms the sales of which will be between Rs.38,500 and Rs.41,000.
- (iii) the number of firms the sales of which will be between Rs.30,000 and Rs.40,000.

Q 4 (a) Student's t-distribution.

(b) A random sample of size 16 has 53 as mean. The sum of the squares of the deviations taken from mean is 135. Can this sample be regarded as drawn from the population having 56 as mean? Obtain 95% and 99% confidence limits for the population mean.

Q 5 (a) Explain lucidly the following three methods of sampling.

- (i) Simple Random Sampling.
- (ii) Stratified Random Sampling.
- (iii) Systematic Sampling.

(b) The contingency table below summarises the results obtained in a study conducted by a research organization with respect to the performance of four competing brands of toothpaste among the users:

	Brand A	Brand B	Brand C	Brand D
No cavities	9	13	17	11
One to five cavities	63	70	85	82
More than five cavities	28	37	48	37

Test the hypothesis that incidence of cavities is independent of the brand of the toothpaste used.

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PAPER-III: BUSINESS ENVIRONMENT

Answer all questions

(20 Marks)

Assignment 1

1. Discuss the major issues in the International Legal Environment.
2. Distinguish between a private limited company and a public limited company.
3. Discuss the evolution of Industrial Policy.
4. Discuss the role of Foreign Trade in the economic development in India.
5. What is Globalization? Enumerate its merits and demerits in the context of Indian Economy.

Assignment 2

1. Write about the functions and structure of World Trade Organization.
2. Discuss the various methods of Privatization.
3. What are the problems involved in implementing Strategies?
4. Discuss the concept of Foreign Capital and Collaborations.
5. Due to economic reforms, what has been the impact on Industrial Sickness?

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PAPER-IV: ACCOUNTING FOR MANAGEMENT

Answer all the Questions

(20 Marks)

Assignment 1

1. What are the functions of accounting?
2. Explain the following : (i) Assets (ii) Liabilities (iii) Income received in advance (iv) Investments
3. What are the differences between a 'Cost sheet' and 'Tender'.
4. What is Cost-Volume-Profit analysis? Explain its application in managerial decision making.
5. Describe the managerial uses of Budgetary Control.

Assignment 2

1. Explain the following: (i) a journal (ii) an account (iii) a ledger
2. Explain Owner's Equity. How is it to be presented in the Balance Sheet?
3. Make an evaluation of Break-Even Analysis.
4. The Standard Cost Card for a product shows: Per unit Rs.
Material Cost - 2 kg. @ 2.50 each 5.00
Wages - 2 hours @ 50 p. Each 1.00
The actual that have emerged from business operations are as follows:
Production 8,000 units
Material consumed: 16,500 Kgs. Rs. 39,600 @ Rs. 2.40 Each
Wages paid: 18,000 Hours @ 40 p. Rs. 7,200 Each
Calculate appropriate material and labour variances.
5. Prepare a Production Budget for a factor producing four products on the basis of the following information:

Product	Opening Stock (Rs.)	Sales (Rs.)	Closing Stock (Rs.)
W	5000	15000	4000
X	4000	17000	3000
Y	3000	12000	4000
Z	6000	14000	3000

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PAPER-V: MANAGERIAL ECONOMICS

Answer all the Questions

(20 Marks)

Assignment 1

1. What do you understand by Managerial Economics? How is it different from Conventional Economics? Explain with the help of suitable examples.
2. Explain the various total and average short run cost function.
3. Critically discuss Monopolistic Competition. Illustrate and discuss the determination of price under Monopolistic Competition.
4. Examine critically Profit Maximization as the objective of business firms. Explain the first and second order conditions of Profit Maximization.
5. Explain the effects of inflation on various groups of people in the society.

Assignment 2

1. What do you understand by Elasticity of Demand? Discuss the role of price elasticity of demand in business decisions.
2. For each of the following production functions, determine whether the returns to scale are increasing, decreasing or constant.
 - (i) $Q=2K + 3L+KL$
 - (ii) $Q=100+3K-2L$
 - (iii) $Q=K/L$
3. Describe the Oligopoly Model in detail.
4. Discuss the managerial theories of the firm.
5. Briefly explain the instruments of Fiscal Policy.

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PAPER-VI: MANAGERIAL COMMUNICATIONS

Answer all the Questions

(20 Marks)

Assignment 1

1. Define Communication. Explain objectives and essentials of effective communication.
2. Describe the characteristics of non-verbal communication and explain the types and functions of non-verbal communication.
3. What is the role of Emotion in inter personal communication.
4. Describe the effective presentation strategies in managerial communications.
5. What are the various stages in writing a formal and long business report?

Assignment 2

1. Explain various methods of communications and its importance in business.
2. Explain about Johari Window theory of communications.
3. Write a note on gateways to effective interpersonal communication.
4. Explain the essentials of effective business correspondence.
5. Explain the skills required for effective Report Writing.