

PROGRAMME : FYBMS / BAF / BBI
 SUBJECT : BUSINESS COMMUNICATION I
 DATE : 22/11/2022

SEMESTER : I
 MARKS : 75 Marks
 TIME: 7.15am-9.45 am

NOTE: 1.All question are compulsory
 2. Figures to right indicated marks

Q1 A Match the Columns (any 8)

(08)

A	B
1. Physical Barrier	A. Jargon
2. Salutation	B. Use of symbols
3. Persuasion	C. Outdoor Publicity
4. Technical Terminology	D. Noise
5. Posters	E. Courtesy
6. Kinesics	F. Mass Communication
7. C of Communication	G. Sales Objective
8. Address to large Group	H. Response
9. Encoding	I. Facial Expression
10. Feedback	J. Dear Sir

(07)

Q1 B State whether the following statements are True or False (any 7)

1. A message and a communication are the same.
2. The Inside address is a compulsory part of a business letter.
3. When a Manger advises a subordinate it is downward communication.
4. Listening enables understanding of a message.
5. Communication by touch is a type of Non-verbal communication.
6. Email is a slow means of communication.
7. The sender and the encoder may be two different people.
8. Editing of a paragraph cannot be done by the person writing it.
9. Passive verbs should be used in Letters rather than active voice.
10. Management must not listen to employees while framing their plans and policies.

Q2 A Define communication and explain its process with a labeled diagram

(08)

B Explain the difference between Horizontal and vertical communication.

(07)

OR

Q2 P Discuss the significance of feedback.

(08)

Q Explain the term Business Ethics with special reference to CSR.

(07)

Q3 A Explain the importance of Listening Skills.

(08)

B Explain Physical barriers and ways to overcome these barriers.

(07)

OR

Q3 P List the advantages and disadvantages of written communication.

(08)

Q Explain the term Business Ethics with special reference to Media.

(07)

Q4 A Draft a Letter of Application with Curriculum Vitae for the Post of a Senior Clerk with Reliance Pvt. Ltd. Kandivali, Mumbai 400067. Use Block Format. (10)

B Mr. Anil Sharma has been offered the Post of a Senior Accountant with Tata Pvt. Ltd., Bandra, Mumbai 400050. Draft a Letter of Job Acceptance on his behalf. Use Modified Block Format. (05)

OR

Q4 P A leading multi-national company requires Management Trainees for its newly opened branch at Mumbai. The candidate should be a Post Graduate and should have excellent communication skills. Apply with Curriculum Vitae to P.O. Box No. 123, The Times of India, Mumbai. Use Block Format. (10)

Q Mr. Raj Shah has been working as an Operation Manager with Bata Pvt. Ltd. since the last ten years and would now like to resign from his post. Draft a Letter of Resignation on his behalf. Use Semi-Modified Block Format. (05)

Q5A Read the Passage and Answer the Questions (15)

Once upon a time, there was a very old man. His eyes were dim and his ears were useless for hearing and his knees trembled. Often he spilt his food over the tablecloth and sometimes down his clothes. At this, his son and daughter-in-law were vexed. They gave him his meals in an earthen dish. This made him very sad. His eyes were moistened with tears. One day the dish fell on the ground and broke into pieces. The young daughter-in-law scolded him. But he did not reply and only sighed. After that, they bought him a wooden dish for a few paise. He had now to eat out of that. One day his little grandson was fitting together some pieces of wood. "What are you making", asked the old man. "I am making it for my father and mother to feed out when I grow big". His parents heard this and they were ashamed of their conduct. Then they behaved well with the old man.

Questions

- (a) How do we know that the grandfather was old and weak?
- (b) Why did his son and daughter-in-law give him food in an earthen dish?
- (c) What made the old man grow sad?
- (d) Why did the daughter-in-law scold him?
- (e) Why did the little boy make the wooden trough?

OR

Q5 Write a short note on: (any three) (15)

1. Impact of technological advancement on communication.
2. Surrogate Advertising.
3. Principles of effective Letter writing.
4. 'You Attitude' in communication.
5. Telephone and Handshake Etiquette.

PROGRAMME : FYBMS / BAF / BBI
SUBJECT : BUSINESS ECONOMICS I
DATE : 23/11/2022

SEMESTER : I
MARKS : 75 Marks
TIME: 7.15am-9.45 am

NOTE: 1.All question are compulsory
2. Figures to right indicated marks

Q.1 A Choose the correct answer. (Any Eight) (08)

1. ----- studies the economic behaviour of individual units.
a. Microeconomics b. Macroeconomics c. Indian economy
2. **Opportunity cost is defined as-----.**
a. Sacrifice of the next best alternative use of a factor
b. Cost of production c. Selling cost
3. **Total revenue (TR) = Price (P) * -----**
a. Average cost (AC) b. Quantity (Q) c. Marginal cost (MC)
4. ----- is an estimation of demand for the product for a future period.
a. Supply forecasting b. Profit forecasting c. Demand forecasting
5. **In the long run all cost are -----.**
a. fixed b. variable c. avoidable
6. **Law of variable proportion is a ----- phenomenon.**
a. Short run b. Long run c. Neutral
7. **Long run average cost curve is also called as----- curve.**
a. Right angled b. Envelope c. Application
8. **A firms equilibrium price and output are determined at -----.**
a. $MC = MR$ b. $MC > MR$ c. $MC < MR$
9. **An oligopolist faces ----- demand curve.**
a. downward b. upward c. kinked
10. **Price discrimination refers to-----.**
a. charging different prices for different commodities
b. charging different prices to the same buyer at different times
c. charging different prices for same commodity to different buyers

Q.1 B State whether the following statements are True or False. (Any seven) (07)

- 1 Demand curve always slopes downward.
- 2 Income elasticity of demand refers to change in quantity demanded due to change in price.
- 3 Economics deals with the problem of scarcity of resources.
- 4 Two iso-quants curve always intersect each other.
- 5 Demand forecasts are essential to plan future production.
- 6 Economies of scale leads to increase in cost of production.
- 7 Product differentiation is a unique feature of monopolistic competition.
- 8 A firm under perfect competition incurs heavy selling cost.
- 9 Price and quantity rigidity prevails in oligopoly.

10 Full cost pricing method has no limitations.

Q.2 A Define price elasticity of demand and discuss its types with the help of diagram. (08)

B Define demand forecasting and discuss its significance. (07)

OR

P Given demand function for banana given as $Q_b = 200 - 5P_b$. (08)

1) Calculate quantity demanded at 5,10,15,20,25 and derive the demand schedule.

2) With the help of above schedule, draw demand curve.

3) calculate the price elasticity of demand when price changes from 10 to 20.

Q Discuss the Law of demand with assumptions. (07)

Q.3 A Explain the law of returns to scale with diagram (08)

B Define economies of scale and discuss internal economies of scale (07)

OR

P Given TFC as Rs.150, calculate TC, ATC, AFC and MC from the information given below- (08)

Units	1	2	3	4	5	6
TVC	35	60	80	110	160	230

Q What is the break- even point with graphic method? Discuss its significance (07)

Q.4 A Explain price and output determination in monopolistic market structure. (08)

B Discuss the features of oligopoly market structure. (07)

OR

P Distinguish between perfect and monopoly market structure. (08)

Q What is price leadership? Explain the types of price leadership. (07)

Q.5 A Discuss full cost pricing method with example. (08)

B What is price discrimination? discuss its degrees. (07)

OR

Q.5 Write short notes on the following – (Any Three) (15)

a) Use of marginal analysis in decision making

b) Learning curve

c) Dumping

d) Distinguish between fixed and variable cost

e) Survey methods of demand forecasting

PROGRAMME : FYBMS / BAF / BBI
SUBJECT : FOUNDATION COURSE I
DATE : 24/11/2022
NOTE: 1.All question are compulsory
2. Figures to right indicated marks

SEMESTER : I
MARKS : 75
TIME: 7.15am-9.45 am

Q.1 (A) Choose the correct alternative (Any EIGHT)

(08)

- (1) India has _____ party system
a) Bi b) Single c) Multi
- (2) Hinayana and Mahayana are the two major schools of thought in _____
a) Hindu b) Buddhism c) Jainism
- (3) Mental retardation means when intelligent ko current score is below _____
a) 100 b) 70 c) 80
- (4) Deficiency of Vitamin _____ causes blindness
a) A b) B c) C d)B12
- (5) The traditional Hindu society was divided into _____ varnas
a) 2 b) 4 c) 8
- (6) _____ is a serious form of conductivity
a) Astigmatism b) Trachoma c) Glaucoma
- (7) _____ has the final power to interpret the constitution
a) Executive b)Judiciary c) Legislative
- (8) Fundamental Duties are incorporated in the constitution by Article _____
a) 50 b) 51A c)51
- (9) _____ water dispute involves the state of Karnataka & Tamil Nadu
a) Krishna b) Godavari c) Cauvery
- (10) Zenda Avesta is the religious book of _____
a) Judaism b) Zoroastrianism c) Hindu

Q.1 (B) State whether the following statements are True or False.(Any SEVEN)

(07)

- (1) Polio caused by virus called polio virus
- (2) Urban society is heterogeneous in nature
- (3) The Mayor is elected for the term of 5 years
- (4) Tribal group of India has language of its own
- (5) There are 10 fundamental duties enshrined in the Indian Constitution
- (6) Preamble reflects philosophy of Indian Constitution

(7) Women are paid more than men in unorganised sector in India

(8) According to Jesus Christ 'desire is the root cause of sorrow'

(9) Sons of soil theory implies jobs for all in a state

(10) In modern India percentage of rural population is more than Urban population

Q.2. (A) Explain the characteristics of Indian Culture (15)

OR

Q.2 (B) Explain the various regional difference. (15)

Q.3 (A) What are the causes of violence against women (15)

OR

Q.3 (B) Explain the causes of declining the gender ratio. (15)

Q.4 (A) Explain the inequalities caused by the caste system (15)

OR

Q.4 (B) Discuss linguistic and suggest measures to resolve linguistic conflicts in India. (15)

Q.5 (A) State the fundamental duties of Indian citizen under the constitution. (15)

OR

Q.5 (B) Write short notes on (Any 3) (15)

(1) Concept of Panchayati Raj in India.

(2) Corruption in politics

(3) Special provisions for people with disabilities

(4) Parliamentary system

(5) Preamble of Indian constitution

---X---

- NOTE:** 1. All questions are compulsory
 2. Figures to right indicated marks
 3. Working Notes should form part of your answer wherever applicable

Q1 A Select the correct alternatives and rewrite the sentence (Any 8)

(08)

1. Accounting helps to _____ the result of operation.
(Ascertain / Analyzed / Understand)
2. All income generally have _____ balance.
(Debit / Credit / Zero)
3. Errors can be removed by _____
(Rectification / Assessment / Audit)
4. Trial balance ensures _____ accuracy of books of accounts.
(Qualitative / Arithmetic / other)
5. Casting means _____. (Totaling / Cross checking / Selecting)
6. Drawing A/c is the _____ A/c. (Personal / Real / Nominal)
7. Temporary difference in trial balance is transferred to _____ A/c
(Profit and Loss A/c / Suspense / Commission)
8. Gross profit is transferred to _____ A/c (Trading / Final / Profit and Loss)
9. _____ accounting standard deals with the accounting for revenue recognition.
(AS 9 / AS 10 / AS 1)
10. _____ is the explanation of the entry given at the end of the entry.
(Posting / Narration / Ledger)

B Match the following and rewrite. (Any 7)

(07)

Column 'A'	Column 'B'
1. Machinery A/c	a. depreciating accounting
2. Journal	b. continuation of Business
3. AS 6	c. Net loss
4. Depreciation	d. Appears both side of cash book
5. Going concern	e. fixed assets
6. Commission	f. Real A/c
7. Debit balance of Profit and Loss A/c	g. Recording same transition two times
8. Contra entry	h. book of daily records
9. Error of Duplication	i. Personal A/c
10. State Bank A/c	j. nominal A/c

2 A Journalized the following transaction in the books of Shyamala Ltd. For July 2018 (08)

1. Started business with cash Rs.1,00,000.
2. Cash deposited into bank Rs. 50,000.
3. Goods purchased from Rebon Ltd. Rs.24,000 @ 10% Trade Discount and 6% Cash Discount and Cash paid immediately.
4. Goods purchased on credit from Sarus Ltd. Rs. 28,000 @ 10% Trade Discount
5. Placed an order for goods with Sara Ltd. For Rs. 1,00,000
6. Goods Purchased from Eagle Ltd. Rs. 1,00,000.
7. Goods Purchased from Falcon Ltd. Rs.50,000.

B Prepare Personal Account of Soham From the Following Transaction for Jan. 2016 (07)

- 1st Debit balance on Soham's A/c Rs.1000.
- 2nd Sold Goods on credit to Soham Rs.5400
- 6th Received from Soham Rs.6,300.
- 6th Allowed him discount Rs.100.
- 10th Soham bought Goods on credit Rs.1,500
- 15th Received cash from Soham Rs.1,450
- 15th Allowed him discount Rs.50
- 20th Purchased goods on credit from Soham Rs. 1,040.
- 25th Paid cash to Soham Rs.500
- 28th Return Goods to Soham Rs.140
- 31st Paid cash to Soham in full settlement of his account Rs. 390.

OR

Q2 P Enter the following Transaction in Three Column Cash book for January 2019 (15)

1. Capital Introduced (in Cash) Rs.15,000.
2. Paid into Bank Rs.40,000
5. Purchased Good by cheque Rs.5,000.
6. Received a cheque from Rama Rs. 10,000.
6. Allowed discount Rs.500.
10. Cash sales Rs.35,000
12. Paid into bank Rs.15,000
15. Gopal paid by cheque Rs.15,000
15. Discount received Rs.250.
20. Paid salaries by Cheque Rs.5,000
25. withdrew for office used Rs.10,000.
31. Drew a cheque for personal used Rs.2,500

Q3 A Cash book of Dove Ltd. Shows a credit balance of Rs.5,360.as on 30th Sept. 2017 Prepare the Bank Reconciliation statement from following details (08)

1. cheque of Rs.2,350 received and deposited in the bank but same were not cleared upto 5th Oct. 2017
2. cheque of Rs. 3,450 issued but not presented for the payment till 30th Sept,2017
3. Bank charges Rs.95 as a interest on overdraft and commission Rs. 60 but these were not recorded in cash book

4. Bank received commission of Rs.600 on our behalf and collect dividend Rs.200 on our investment both were not recorded in Cash Book.
5. Mr. Shirke, a Customer directly deposited Rs.600 into Bank.
6. Receipt side of Bank Column is short by Rs. 400
7. Pass book shows Overdraft balance of Rs. 2,615.

B

(07)

Rectify the following errors in the books of Selva Ltd

1. Rs.2,500 paid for new cupboard for office was posted to purchase account from cash Book
2. Rs.5,500 being expenses on extension of existing building are charged to building repair account.
3. stationery worth Rs.700 purchased for office used was recorded through purchase register.
4. cash receipt of Rs.1,400 from Mr. Alex was posted to the debit of Mr. Jerry as Rs. 4,100

OR

Q3 P

State which of the following expenses / receipts are Capital, revenue and deferred revenues. Explain with reasons

(15)

1. Expenditure incurred on overhauling machinery
2. Profit earn on sale of Machinery
3. Cost of acquisition of goodwill
4. Cost of dismantling a plant from particular locality and reinstalling the same in another locality.
5. Cost of transporting new acquired machinery.
6. Amount spend on replacement of defective plant of old plant
7. Travelling expenses for a trip abroad for purchase of assets

Q4 A

Jayvant manufacturing company purchased on 1st April, 2010, Machinery for Rs.2,90,000 and spend Rs.10,000 on its installation. After having having used it for 3 years it was sold for Rs.2,00,000. Depreciation is to be provided every year at the rate of 15 % per annum on the straight line method. show a machinery account for 3 years ends on 31st March every year.

(08)

B

Mr. Ram has prepared following Trial balance as on 31st March 2018. Kindly verify it and prepare a revised Trial Balance.

(07)

Particulars	Debit Rs.	Credit Rs.
Capital	1,50,000	
Purchase		1,16,000
Sales	2,00,000	
Goodwill		1,00,000
Machinery		21,000
Furniture		19,000

Sundry debtor		35,000
Sundry creditor	42,000	
Office Expenses		10,000
Interest received	3,200	
Outstanding expenses	15,000	
Opening stock		1,07,400
Cash balance		1,800
Total	4,10,200	4,10,200

OR

Q4 P From given Trial balance of Heena, Prepare Manufacturing , Trading and Profit and Loss Account for the year ended 31-03-2017 and Balance Sheet as that date (15)

Particulars	Rs.	Particulars	Rs.
Stock as on 1-4-16			
Raw material	13,000	Capital of Heena	90,000
Work in Progress	8,000	Sales	1,12,000
Finish goods	19,000	Interest received	450
Machinery at cost	40,000	Discount received	250
Furniture at cost	18,000	Creditors	16,000
Drawing	3,000	Provision for depreciation	
Debtor	18,500	On Machinery	20,000
Salaries	3,820	On furniture	10,000
Factory Insurance	1,070		
Balance with bank	13,500		
Cash on hand	810		
Purchase of raw material	79,000		
Return inward	390		
wages	8,500		
Direct manufacturing exp.	2,300		
Factory Rent	2,500		

Office rent	2,200		
Power expenses	1,200		
Investment	10,100		
Factory Lighting	760		
Office lighting	1,200		
Carriage outward	550		
Printing and Stationery	1000		
Bad debts	300		
	2,48,700		2,48,700

Adjustments:

1. Additional bad debts of Rs. 500 are to be written off and RDD to be provided at 5% on debtors.
2. Outstanding office rent Rs.200
3. Depreciation of Machinery at 10%p.a, Furniture at 15% p.a
4. Closing stock are Raw Material- Rs. 2,000 , WIP- Rs. 16,330 , Finished Goods- Rs 28,000

- Q5A Explain the different stakeholders interested in accounting information. (08)
 B Explain the use of computer in accounting (07)

OR

- Q5 Write a short note on:(any three) (15)
1. IFRS
 2. Straight Line Method of Depreciation (SLM)
 3. Need for Book keeping
 4. Conservatism
 5. AS- 9

NOTE:1) All question are compulsory
2) Figures to right indicated marks

Q.1 (A) Choose the correct alternative (Any EIGHT) (08)

- (1) Promises which form the consideration or part of the consideration for each other are called _____
(a) reciprocal promises (b) cross offers (c) conditional offer (d) conditional promises.
- (2) Acceptance to be valid must _____
(a) be absolute (b) be unqualified (c) both be absolute & unqualified (d) be conditional.
- (3) A contract with or by a minor is a _____
(a) valid contract (b) void contract (c) voidable contract (d) voidable at the option of either party.
- (4) Competency to contract relates to _____
(a) age of the parties (b) soundness of mind of the parties (c) both age & soundness of mind (d) intelligence of the parties.
- (5) When the consent to the contract is caused by coercion, the contract under section 19 is _____
(a) valid (b) voidable (c) void (d) illegal.
- (6) Consumer Protection Act is applicable to _____
A. immovable goods B. movable goods C. specific goods and services D. all goods and services
- (7) Property of the company belongs to _____
a) Company b) Share holders c) Members d) Promoters
- (8) The goods identified at the time of sale of contract is _____
(a) future goods (b) uncertain goods (c) specific goods (d) certain goods
- (9) Which type of right is related to logo work?
(a). Copyright.(b). Trademark.(c). Trade secret.(d). Patent.
- (10) The conditions and warranties in a sale of goods may be: _____
a)Express or implied b)Express c)Implied d) Situation

Q.1 (B) State whether the following statements are True or False.(Any SEVEN) (07)

- (1) Adaptation of novel amounts to violation of copyright
- (2) Company can be limited by shares ,guarantee or unlimited
- (3) In case of OPC one director is appointed
- (4) For being a consumer consideration is necessary under Consumer Protection Act
- (5) Negotiable instrument is always Transferable
- (6) A cheque is a promissory note.
- (7) Where the unpaid seller has a part with possession of good sellers right of lien is lost
- (8) Minor is eligible to enter into contract
- (9) Where a party to a contract does not suffer any loss on account of breach of contract can never claim damage
- (10) Voluntary transfer of possession is called delivery

Q.2. (A) Explain essential element of valid contract under Indian contract Act. (08)

Q.2 (B) Define consideration. Explain the features & exceptions of consideration (07)

OR

Q.2 (C) Define unpaid seller & explain the rights of unpaid seller (08)

Q.2 (D) Distinguish between Sale & Agreement to Sell (07)

Q.3 (A) Define promissory note & explain the features of promissory note along with format (02)

Q.3 (B) Define cheque & explain the types of crossing (07)

OR

Q.3 (C) Explain various councils under consumer protection act (03)

Q.3 (D) Who is consumer? Give overview of consumer protection act objective (07)

Q.4 (A) What is private placement? Explain the rules & procedure of private placement (03)

Q.4 (B) Define prospectus & discuss the types of prospectus (07)

OR

Q.4 (C) What is memorandum of association? Explain the different clauses under it. (0)

Q.4 (D) Distinguish between Public company & Private company (07)

Q.5 (A) What is trade mark? Discuss the functions & types of trade mark (0)

Q.5 (B) What is patent and explain the procedure to obtain the patent (0)

OR

Q.5 Write short notes on (Any 3) (15)

(1) Types of meeting

(2) Doctrine of constructive notice

(3) Doctrine of indoor Management

(4) Copyright

(5) Bill of exchange

---X---

PROGRAMME : FYBMS
 SUBJECT : Business Statistics
 DATE : 28/11/2022

SEMESTER : I
 MARKS : 75
 TIME : 7.15am-9.45am

NOTE: 1. All questions are compulsory
 2. Figures to right indicated marks

(08)

Q1 A Fill in the blanks with the correct alternative (Any Eight)

1. The coefficient of correlation always lies between _____.
 a) 0 and 1 b) -1 and 1 c) -1 and 0 d) 1 and 0
2. The middlemost observation, dividing the entire distribution into two equal parts is known as _____.
 a) Mean b) Median c) Mode d) Range
3. A statistics measure, calculated for all objects in the population is called as _____.
 a) Attribute b) Parameter c) Variable d) Sample
4. Find mode, $\bar{x} = 39, 42, 30, 41, 38, 58, 41, 35, 37, 41$
 a) 38 b) 41 c) 30 d) 58
5. If the value of coefficient of variation is more, the consistency of the data is _____.
 a) More b) less c) same d) zero
6. If the two regression coefficients are positive, the value of the correlation coefficient must be _____.
 a) Negative b) Positive c) Zero d) Same
7. Least square method is not used to compute _____.
 a) Secular Trend b) Non linear Trend c) Cyclical Variation d) Linear Trend
8. The index number for base period is _____ taken as 100.
 a) Never b) Sometimes c) Rarely d) Always
9. Complementary events are _____.
 a) Independent b) exhaustive c) impossible event d) mutually Exclusive
10. Decision makers views may be classified as _____.
 a) Laplace b) maximization type c) minimisation type d) pessimistic type

(07)

B State whether the following statements are True or False (Any Seven)

1. Pie diagram is represented by using circles.
2. The suitable measure of dispersion to indicate extreme variations in the data is range.
3. Standard deviation is denoted by r .
4. The Family Budget Method is used to calculate the Chain Base Index Numbers.
5. If the two regression coefficients are negative then the value of the correlation coefficient will be positive.
6. State of Nature in a decision problem are mutually exclusive and exhaustive.
7. Seasonal variation is repetitive and of predictable nature.
8. Karl Pearson's formula is used for finding rank correlation.
9. $P(A) + P(A') = 1$
10. Periodicals or magazines are a source of secondary data.

Q2 A For the following discrete frequency distribution, prepare cumulative frequency distribution of "less than" type and "greater than" type. Also obtain relative frequencies. (08)

x	1	2	3	4	5	6
f	5	7	15	11	6	4

B Find combined mean and standard deviation for the following data: (07)

	Group I	Group II
Number	100	200
Mean	40	43
S.D	5	4

OR

Q2 P Fit a straight line trend to the following data representing imports in million of ₹ of a certain company. Also find an estimate for the year 2008. (08)

Year	2000	2001	2002	2003	2004	2005	2006
Imports	48	50	58	52	45	41	49

Q For the following conditional pay-off tables, select best decision, using EMV and EOL criteria. (07)

	S ₁	S ₂	S ₃
A ₁	70	50	100
A ₂	30	0	40
A ₃	90	-10	60
Probability	0.3	0.2	0.5

Q3 A Find arithmetic mean for the following: (08)

Daily Wages	5-15	15-25	25-35	35-45	45-55
No. of Persons	3	8	13	10	5

B Find coefficient of correlation. (07)

X	-3	1	2	7	-1	4
Y	-7	2	1	5	-3	5

OR

Q3 P I) From a well-shuffled pack of cards, a card is drawn at random, find the probability that the card drawn is a) an ace, b) a heart card, c) a king of hearts. (04)

II) If X is a random variable having probability mass function. (04)

$$P(X=x) = \frac{x}{8} \quad ; x = 0, 1$$

$$= \frac{k}{4} \quad ; x = 2$$

$$= \frac{kx}{16} \quad ; x = 3$$

Find the value of k and E(X).

- Q Find trend values for the following data giving the number of students in a commerce college using three-yearly cycle. (07)

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
No. of students	1500	1700	1800	1750	1850	2000	1950	1900	2200	2200

- Q4 A Find the Q_1 and Q_3 for the following data: (08)

Daily wages in ₹	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50
No. of Workers	12	28	36	50	30	18	16	10

From the following data, find the regression equation and further estimate y if $x = 16$

- B (07)

x	3	4	6	10	12	13
y	12	11	15	16	19	17

OR

- Q4 P I) Calculate Laspeyre's and Paasche's index numbers from the following data. (04)

Commodity	Price in Rs.		Quantity in Kgs.	
	Base Year	Current Year	Base Year	Current Year
A	4	5	15	20
B	8	12	20	18
C	6	8	25	20
D	14	12	10	10

- II) The cost of living index number is 278.75. Evaluate the index for "Food" subgroup. (04)

Group	Index Number	Weights
Food	-----	48
Fuel and Lighting	220	12
Clothing	230	9
Rent	160	12
Miscellaneous	190	15

With reference to the following pay-off table, find optimal decision using criterion

- Q i) Maximin, ii) Maximax, iii) Laplace, iv) Minimax. (07)

Course of Action	State of Nature		
	S_1	S_2	S_3
A_1	70	0	50
A_2	0	60	65
A_3	76	-10	85

- Q5 A Calculate mean deviation from the mean and its coefficient for the following data: (08)

Class Interval	0-10	10-20	20-30	30-40	40-50
Frequency	15	20	40	20	5

- B A committee of 5 is to be formed from a group of 8 boys and 7 girls. Find the probability that the committee consists of 3 boys and 2 girls. (07)

OR

Q5 P Write a short note on:(any three)

1. Describe various uses of Statistics.
2. Describe merits and demerits of arithmetic mean as a measure of Central tendency.
3. Real Income and Deflating
4. Types of correlation with examples
5. Explain the following terms: i) Experiment ii) Sample Space
iii) Exhaustive Events iv) Independent Events v) Complementary Events.

NOTE: 1. All questions are compulsory
 2. Figures to right indicated marks

Q1 A Fill in the blanks with appropriate answers:- (Any 8) (08)

1. The _____ self is a collection of those things that we keep to ourselves.
 a) Hidden b) Unknown c) Open
2. A _____ group is a designated work group defined by organizational structure.
 a) Formal b) Informal c) interest
3. Affection, belongingness, acceptance and friendship are elements of _____ needs.
 a) Basic b) Social c) Safety
4. _____ stated that within human being there exists a hierarchy of needs.
 a) McGregor b) Abraham Maslow c) McClelland
5. Drug addiction is the _____ effect of stress.
 a) Behavioral b) Physiological c) Psychological
6. Individuals who are prone to stress are described as _____ personalities.
 a) Type A b) Type B c) Type C
7. T- group is also known as _____ group.
 a) Training b) Team Building c) Team Planning
8. _____ environment is an environment after birth.
 a) Pre-natal b) post-natal c) Pre-genetic
9. A _____ group is created by management to accomplish certain tasks and goals.
 a) Task b) Command c) Informal
10. _____ is the prestige, position or rank given to groups by others.
 a) Status b) Contribution c) Standard

B State whether the following statements are True or False:- (Any 7)

1. Emotions affect moods and moods affect emotions.
2. Attitude can have a significant effect on the behavior of a person.
3. Women are emotionally more expressive than men.
4. Intelligence is our ability to carry out abstract thinking.
5. Yoga and meditation can reduce stress.
6. Job stress increases rate of absenteeism

7. Open self of Johari window is also known as free area.
8. Introversion- Extraversion is not a trait of Big-Five model.
9. Face is often referred to as the “ window of the soul”
10. Excessive smoking is a psychological effect of stress

- Q2 A Explain various Concepts of human behaviour in detail (08)
- B Explain Group. Explain stages of a group development (07)

OR

- Q2 P Explain Maslow’s Need hierarchy theory (08)
- Q What is organizational development? Explain its characteristics. (07)
- Q3 A Explain how Pre-Natal and Post-Natal factors may affect pregnant women and child (08)
- B What is Politics at workplace? Explain the various causes of political behaviour. (07)

OR

- Q3 P What are the Characteristics of organizational culture? (08)
- Q Explain the different organizational stressors in brief. (07)
- Q4 A What is Personality and describe the Big Five Model of personality. (08)
- B What is conflict? Explain the various sources of conflict. (07)

OR

- Q4 P Explain the Monetary and Non-Monetary ways of motivation (08)
- Q Explain Stress management in detail. (07)
- Q5A Describe in detail the essentials for building high performance teams. (15)

OR

- Q5 Write a short note on:(any three) (15)
1. The Myers-Briggs type indicator (MBTI)
 2. Theory X and Theory Y
 3. Effects of Stress
 4. Emotional Intelligence (EQ)
 5. Johari Window
