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SARDAR PATEL UNIVERSITY
B.COM (SEMESTER - I) EXAMINATION 2024
UB01IKCOM01: INTRODUCTION TO INDIAN KNOWLEDGE SYSTEMS

Date: 19/11/2024, Tuesday
Time: 10:00 AM to 11:30 AM (1:30 Hours)

TOTAL MARKS: 25

Q-1 Multiple Choice Questions: [05]

1 _____may not include in characteristics of unity.

  A Humility   B Intolerance

  C Gentleness   D Patience

2 The unity in diversity of India is because of_____.

  A Our long history   B Rich heritage

  C Social division   D Both A&B

3 Indian Knowledge System developed through_____.

  A Experience   B Observation

  C Experimentation   D All of these

4 What are the three fundamental doshas in Ayurveda?

  A Vata, Pitta, Kapha   B Sattva, Rajas, Tamas

  C Rasa, Rakta, Mamsa   D Prana, Apana, Vyana

5 Which branch of Ayurveda deals with the surgical aspect of medicine?

  A Kaya Chikitsa   B Vrisha Chikitsa

  C Shalya Chikitsa   D Bala Chikitsa

Q-2 What is IKS (Indian Knowledge System)? Explain in detail. [10]

OR

Q-2 Explain the concept of Unity in Bhartiya Spirituality Thinking [10]

Q-3 Discuss Bhartiya contributions in the field of Mathematics and Astronomy. [10]

OR

Q-3 Explain Bhartiya Science of architecture with reference to Lothal, Mohan Jo Daro, Dholavira. [10]

SARDAR PATEL UNIVERISTY
Bachelor of Commerce (Semester –I) Examination - 2024
UB01MACOM06: Financial Accounting - I
Date: 20ᵗʰ November, 2024, Wednesday

Time 10:00 A.M. to 12:30 P.M.   **Total: 50 Marks**

Instructions: (1) Figures to the right indicate full marks of questions.

(2) Show the necessary calculations as a part of your answer.

Que. 1   **(10)**

Select correct option out of the alternatives given for each of the following question.

(1) "Material with lowest price is issued first." This sentence is suitable to...

(A) FIFO Method   (B) LIFO Method   (C) HIFO Method   (D) NIFO Method

(2) "Disclosure of Accounting Standard" represents...

(A) Accounting Standard 1   (B) Accounting Standard 3

(C) Accounting Standard 10   (D) Accounting Standard 26

(3) A B and C are partners sharing profits and losses in the ratio of 5:3:2. Their capitals were Rs. 33,500 Rs. 26,800 and ₹ 13,400 (Debit) respectively. They dissolved the firm. C is insolvent. His capital deficiency will be distributed between A and B under Garner versus Murray decision in the following ratio.

(A) 5:3   (B) 4:5   (C) 5:4   (D) Equally

(4) Which partners would bring their loss of realization account in cash according to Garner versus Murray decision?

(A) Solvent Partners   (B) Insolvent Partners

(C) All Partners   (D) Loss cannot be brought in cash

(5) In piecemeal distribution of cash, the credit balance of Profit & Loss Account is...

(A) Deducted from Partners Capital A/c (B) Added in Partners Capital A/c

(C) Deducted from Cash   (D) should not be distributed

(6) Under _____ assumption the amount received on cash instalment is distributed, while making piecemeal distribution on dissolution of a partnership firm?

(A) All partners are solvent   (B) All partners are insolvent

(C) One partner is solvent   (D) No amount will be realized in future

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(7) According to Maximum Loss Method, negative balance of any partner can be distributed among other partners in the ratio of...

(A) Equal Ratio   (B) Capital Ratio

(C) Profit & Loss Ratio   (D) None of the above

(8) Purchase Consideration – Net Assets =

(A) Goodwill   (B) Capital Reserve

(C) Preliminary Expenses   (D) Securities Premium

(9) In Conversion of Partnership Firm into Company, Shares and Debentures received towards purchase consideration are distributed among the partners in the ratio of...

(A) Equal Ratio   (B) Capital Ratio

(C) Profit & Loss Ratio   (D) None of the above

(10)   Ashok Limited has taken over a business of Mayank brothers. Sundry Assets at Rs. 10,00,000 and the value of Goodwill at Rs. 1,00,000. Sundry Liabilities at Rs. 8,00,000. Then the purchase price of the business will be.

(A) Rs. 2,00,000   (B) Rs. 2,50,000   (C) Rs. 3,00,000   (D) Rs. 3,50,000

Que. 2   **(10)**

In a factory, the following information are available of Receipts and Issues regarding material 'Z' during October, 2024.

Date	Receipts		Issues	
	Units	Price per unit (Rs.)	Date	Units
01-10-2024	27,000	6	14-10-2024	45,000
06-10-2024	54,000	9	21-10-2024	72,000
15-10-2024	63,000	8	30-10-2024	9,000
28-10-2024	27,000	10		

There is a shortage of 3,000 units during the verification of stock on 31/10/2024.

Prepare Stock Register under FIFO and LIFO Method.

OR

Que. 2   **(10)**

Write short note on: Accounting Standard 2 (Valuation of Inventory).

Que. 3   **(10)**

X, Y and Z are partners sharing profits and losses in the proportion of 3:2:1 respectively. Their firm was dissolved as on 31-03-2024. The Balance Sheet on that date was as under.

2

Liabilities	Rs.	Assets		Rs.
Capital Accounts		Land		1,50,000
X 5,70,000		Building		2,10,000
Y 21,000		Machinery		1,80,000
Z 9,000	6,00,000	Debtors	1,00,000	
General Reserve	54,000	(-) B. D. R.	10,000	90,000
Creditors	70,000	Bills Receivable		11,500
Bills Payable	22,500	Stock		80,000
Bank Overdraft	8,000	Cash		33,000
	7,54,500			7,54,500

Additional information:

(1) Assets are realized as under. Land Rs. 1,20,000, Building Rs. 1,80,000, Machinery Rs. 1,47,500, Stock Rs. 60,000. Remaining assets are realized at their book value.

(2) Creditors are paid Rs. 59,500 for full settlement. Remaining liabilities are paid at their book value.

(3) Dissolution expenses were amounted to Rs. 9,000.

(4) A Bills Receivable discounted with the bank was dishonoured and Rs. 15,000 was paid to Bank. No amount was received from the drawee.

Y and Z both declared insolvent. Out of one rupee only 60 paise could be recovered from Y's assets and only 40 paise could be recovered from Z's assets.

From the above information, prepare following accounts in the books of partnership firm.

(1) Realisation Account (2) Partners' Capital Accounts and (3) Cash Account

OR

Que. 3 (10)

A, B and C are partners sharing profits and losses in the proportion of 2:2:1 respectively. Their firm was dissolved as on 31-03-2024. The Balance Sheet on that date was as under.

Liabilities	Rs.	Assets		Rs.
Capital Accounts		Plants		2,50,000
A 2,30,000		Debtors	60,000	
B 30,000		(-) B. D. R.	10,000	50,000
C 10,000	2,70,000	Stock		1,50,000

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	Rs.		Rs.
General Reserve	50,000	Cash	70,000
Creditors	1,20,000		
Bills Payable	80,000		
			5,20,000
	5,20,000		5,20,000

Additional information:

(1) Assets are realized as under. Plants Rs. 1,80,000, Stock Rs. 80,000. Debtors of Rs. 40,000 paid in full amount and the remaining paid 50 paise in a rupee.

(2) All liabilities are paid fully.

(3) A liability of Rs. 10,000 not recorded in the books had to be settled for Rs. 5,000.

(4) Dissolution expenses amounted to Rs. 5,000.

C is declared insolvent and 10 paise in a rupee were received from his private assets.

From the above information, prepare following accounts in the books of partnership firm using Garner versus Murray decision.

(1) Realisation Account (2) Partners' Capital Accounts and (3) Cash Account

(10)

Que.4

P, Q and R are partners sharing profits and losses in the proportion of 5:4:1 respectively. Their firm was dissolved as on 31-03-2024. The Balance Sheet on that date was as under.

Liabilities		Rs.	Assets	Rs.
Capital Accounts			Sundry Assets	2,79,000
P	60,000		Cash	30,000
Q	54,000			
R	15,000	1,29,000		
General Reserve		30,000		
Loan				
P	30,000			
R	45,000	75,000		
Creditors		45,000		
Bills Payable		30,000		
		3,09,000		3,09,000

The assets realised as under:

First instalment   Rs. 45,000   (Dissolution Expenses Rs. 3,000)

2nd instalment   Rs. 79,500   (Dissolution Expenses Rs. 4,500)

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3rd instalment   Rs. 16,000   (Dissolution Expenses Rs. 1,000)

Prepare a statement showing piecemeal distribution on cash according to **Surplus Capital**

Method.

<div align="center">OR</div>

(10)

Que. 4

Ganga, Jamuna and Zerna are partners sharing profits and losses in the proportion of 3:2:1 respectively. Their firm was dissolved as on 31-03-2024. The Balance Sheet on that date was as under.

Liabilities		Rs.	Assets	Rs.
Capital Accounts			Sundry Assets	6,09,000
Ganga	2,10,000		Cash Balance	42,000
Jamuna	1,05,000			
Zerna	21,000	3,36,000		
Jamuna's Loan		75,000		
Creditors		2,40,000		
		6,51,000		6,51,000

Other information:

Particulars	Assets Realised Rs.	Dissolution Expenses Rs.
First instalment	1,26,000	10,500
Second instalment	1,08,000	8,250
Third instalment	1,86,000	7,350
Forth instalment	1,63,500	11,400

Prepare a statement showing piecemeal distribution of cash according to **Maximum Loss**

Method.   (10)

Que.5

Akul and Bakul are partners sharing profits and losses in the ratio of 3:2 respectively. Their Balance Sheet as on 31-03-2024 was as under.

Liabilities		(Rs.)	Assets	(Rs.)
Capital Accounts			Land - Building	87,500
Akul	75,000		Machinery	75,000
Bakul	40,000	1,15,000	Furniture	25,000
Profit and Loss Account		25,000	Stock	50,000

Bank Loan	75,000	Debtors	1,25,000
Creditors	1,37,500	Bills Receivable	25,000
Bills Payable	42,500	Cash	7,500
	3,95,000		**3,95,000**

The above firm was converted in to 'Akul Limited'.

Conditions of Conversion:

(1) The company took over the assets (Except Cash and Stock) at the following values.

Goodwill	₹ 1,50,000	Machinery	₹ 50,000
Debtors	₹ 1,12,500	Land - Building	₹ 1,75,000
Furniture	₹ 7,500	Bills Receivable	₹ 22,500

(2) Company agreed to pay the liabilities except the Bank Loan.

(3) Akul took over the Stock at 10% less value.

(4) Bakul agreed to repay the Bank Loan.

(5) Akul Limited paid 27,500 Equity Shares of Rs. 10 each and balance by Cash towards the purchase consideration. Partners are distributed the shares in profit sharing ratio.

Prepare necessary accounts in the books of partnership firm.

OR

Que.5

Discuss in detail the methods of Purchase Consideration.   (10)

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SARDAR PATEL UNIVERSITY
B.Com. Examination, 1ˢᵗ Semester (NEP)
Thursday, 21ˢᵗ November-2024
Session: Time: 10.00 A.M. TO 12.30 P.M.
Subject/ Course Title: Advanced Accounting-I (UB01MACOM01)

Total Marks: 50

[10]

Q.1 Choose right answer from the multiple options:

1. Total amount payable less its cash price is equal to
   (A) Depreciation   (B) Interest
   (C) Market price   (D) Purchase price

2. Cash price of asset + Interest = ...Price.
   (A) Contract Price.   (B) Market Price.
   (C) After depreciation Price.   (D) Purchase Price.

3. Under hire-purchase system the amount of interest is charged to_____ Account.
   (A) Asset   (B) Purchaser
   (C) Profit and Loss   (D) Seller

4. Del credere commission is calculated on the _____.
   (A) Total sales   (B) Only credit sales
   (C) Only cash sales   (D) Total goods sent

5. The abnormal loss is credited to _____ account.
   (A) Consignment   (B) Consignee
   (C) Insurance Company   (D) General Profit and Loss A/c.

6. A and B entered into joint venture. A gives Rs.60,000 to B. this transaction will be recoded in the book of A _____.
   (A) Joint Venture A/c   (B) B's A/c
   (C) Expenses A/c   (D) None of above

7. Which the following activities are appropriate for joint venture business ?.
   (A) Constriction of a river bridge   (B) Cloth Shop
   (C) Medical Store   (D) ACC cement Agency

8. Why opening statement of affairs is prepared ?
   (A) To find out Profit / Loss   (B) To find out Cash
   (C) To find out assets   (D) To find out Opening balance of Capital

9. Which of the following account is to be prepared to find out sales on credit ?
   (A) Profit and Loss Account
   (B) Income Expenditure Account
   (C) Debtors Account
   (D) Creditors Account

10. In single entry system :
   (A) Only one effect is given to each transaction.
   (B) Each transaction has two effects
   (C) Some transactions have two effects, which some have only one effect.
   (D) Some transactions have no effect.

P.T.O.

Q.2 Govind purchased a machine on 1st April 2020 from Gopal on hire-purchase system. [10]
Terms of payments were as under:

	Rs.
On 01-04-'20	2,00,000
On 31-03-'21	3,60,000
On 31-03-'22	3,20,000
On 31-03-'23	2,80,000
On 31-03-'24	2,40,000

Interest in charged at 20% p.a. on opening balance of each year. Depreciation is charged at 10% p.a. on reducing balance method.

Prepare a Machinery Account and Gopal's Account in the books of Govind and write a First year journal Entry in the books of Gopal.

You are required to show necessary calculations as a part of the answer.

<div align="center">OR</div>

Q.2 (A) Differenciate between Hire-purchase and Installment system. [05]

(B) On 01-04-2024 Suresh bought Machinery from Ramesh for a cash price of Rs.37,250. [05] Anil made a down payment of Rs.10,000 and agreed to pay the balance in three annual installment of Rs. 10,000 each along with interest at the rate of 5% per annum. Depreciate the machine at 10% per annum. On diminishing balance method.

Pass the journal entries in the books of Suresh of First year.

You are required to show necessary calculations as a part of the answer.

Q.3 Ram Mobile consigned 50 mobiles to Shyam Mobile Service on 1-3-2024. The cost [10] price was Rs. 6000 Per Mobile, but the pro-forma invoice was made out at a figure so as to show a profit of 25% on invoice price.

On the same day, Royal Radio incurred the following expenses:

Carriage	Rs. 1,000
Freight	Rs. 15,000
Insurance	Rs. 12,500

On the same day, Shyam Mobile Service sent a bank draft for Rs. 1,22,000.

On 30th June,2024 Shyam Mobile Service sent an account Sale and a Bank draft for the amount payable. According to the Account sale 30 mobiles were sold at Rs.8200 each for cash. 5 mobiles were sold at Rs. 8500 each to Govind on credit and 2 mobiles were sold at Rs. 8400 each to Laxman on the recommendation and responsibility of Ram Mobiles. Selling expanses incurred Rs.5,225; Octroi incurred Rs. 3,500.

Govind and Laxman became bankrupt and Shyam Mobile Service could recover only 80% from their estate.

Shyam Mobile Service is entitled to receive a commission of 5% on sale and 2% Del Credited Commission on credit sales.

Prepare necessary Account in the books of the consignor

<div align="center">OR</div>

Q.3 (A) Differentiate between Sales and Consignment. [05]

(B) Paresh of Petlad consigned goods worth Rs.3,00,000 to Suresh of Surat and paid Rs. [05] 24,000 for railway freight and carriage. Suresh accepted as an advance a bill of Rs. 1,20,000 drawn by Paresh, which the latter discount of Rs. 3,600 Suresh paid Rs. 12,000 for clearing and other charges, He sold all the goods for Rs. 4,20,000. He is entitled to a commission as 5% on sales. He settled his account with a bank draft for the balance.

prepare necessary accounts in the books of Paresh.

<div align="center">2</div>

Q.4   Dhoon and Heer entered into joint venture to share profits and losses equally. The   [10]
following transactions took place:
Dhoon purchased goods of Rs.2,28,000 and paid freight and other expenses Rs. 12,000.
Heer supplied goods of Rs. 75,000 from his stock and paid Rs. 1,500 for carriage.
Heer sold some of the goods for Rs. 2,40,000, allowing sales commission of Rs.6,000.
Dhoon paid storage and other expenses Rs. 3,000. Dhoon sold the remaining goods for
Rs. 1,39,500 and paid Rs. 12,000 for commission and carriage.
Prepare Joint Venture Account and Co-venture's Account in the books of both the
parties.

OR

Q.4   Distinguish between Joint-Venture and Consignment
[10]

Q.5   Following details are from the books of Vijay Patel. Prepare final accounts for the year   [10]
ending 31-3-2024
(1) Assets-Liabilities

	1-4-2023 (Rs.)	31-3-2024(Rs.)
Stock	50,000	70,000
Debtors	80,000	1,00,000
Furniture	80,000	?
Creditors	30,000	40,000
Cash balance	10,000	60,000

(2) Transactions during the year :

	Rs.		Rs.
Cash received from debtors	3,22,000	Cash purchase	84,000
Cash paid to creditors	2,32,000	Discount received from	
Office expenses	96,000	creditors	4,800
Cash withdrawal	20,000	Discount allowed to debtors	6,000
Capital brought in cash		Purchase returned	6,000
during the year	40,000	Sale returned	10,000
Cash sale	1,20,000	Bad –Debts	8,000
		Depreciation on Furniture 12% p.a.	

OR

Q.5   State the Meaning, Features and Limitations of Single Entry System.   [10]

—✗—✗—

3

Seat No: _____

SARDAR PATEL UNIVERISTY

Bachelor of Commerce - Semester-1 (NEP) Examination – Nov. 2024

UB01MICOM01- BUSINESS ORGANIZATION AND MANAGEMENT
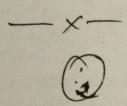Date: 22nd November 2024, Friday

Time: 10.00 A.M. to 12.30 P.M.   Total: 50 Marks

Instructions: Each Question carry equal marks.

Q-1   In the following sub-questions, more than one answer is given, select the correct
       answer.   10
       (1) Which of the following is not Managerial Skill?
               (A) Distribution skill   (B) Technical skill
               (C) Human Relations Skills   (D) Conceptual Skills
       (2) Which of the following is a not Principle of Management?
               (A) Rigidity   (B) Unity of command   (C) Discipline   (D) Stability
       (3) Which of the following is a not Type of plans?
               (A) Rules   (B) Strategies   (C) Procedures   (D) Controlling
       (4) To declare Bonus for the employees of the business unit is a ....Decision.
               (A) Strategic (B) Policy   (C) Group   (D) Operative
       (5) On which direction there is flow of Authority?
               (A) Bottom to top   (B) Top to bottom. (C) Parallel   (D) Top to top
       (6) In which Organization, Line officer gets advice from Expert?
               (A) Line and Staff Organization   (B) Line Organization
               (C) Functional Organization   (D) Committee Organization
       (7) Controlling takes place at .... Level.
               (A) Every   (B) Middle   (C) Bottom   (D) Top
       (8) Which of the following is the First stage of controlling process?
               (A) Establishment of Standards   (B) Collecting data about performance
               (C) Taking Corrective steps (D) Comparing Performance with standards
       (9) Which of the following is included in "POSDCORB"?
               (A) Communication   (B) Priority
               (C) Coordination   (D) Co-operation
       (10) Controlling is a .... Process.
               (A) Rigid   (B) Continuous   (C) Very slow   (D) Unnecessary

[PTO]

(-1)

Q-2 Describe Principles of Management.   10

<div align="center">OR</div>

Q-2 Explain Managerial Role.   10

Q-3 What is Planning? Describe Types of plans.   10

<div align="center">OR</div>

Q-3 Explain Steps in Decision Making Process.   10

Q-4 Specify characristics of Organization.   10

<div align="center">OR</div>

Q-4 Discuss Line and Staff organisation in Detail.   10

Q-5 Explain Steps in control Process.   10

<div align="center">OR</div>

Q-5 Discuss Objectives and Advantages of Budgetary Control.   10

<div align="center">—x—</div>

<div align="center">②</div>

SARDAR PATEL UNIVERSITY

Bachelor of Commerce (Semester1) Examination-2024-25
Subject Code: UB01MDCOM04   **Subject Title:** Business Economics-I

Date:23rd November 2024, Saturday

Time:10:00 AM to 12:30 PM

Total: 50 Marks

(10)

Q-1. Choose the Correct option

1. Who said that Economics is growth oriented?

A) Marshall   B) Samuelson   C) Keynes   D) Adam Smith

2. How goods and services are different from each other?

A) Scarce   B) Visible-Invisible   C) Valuable   D) None of them

3. If price rises, what changes are observed in Demand?

A) Contraction   B) Expansion   C) Increase   D) Decrease

4. If Demand is constant and Supply rises then Price ......

A) Increase   B) Constant   C) Decreases   D) None of them

5. Consumer's Equilibrium means ......

A) Maximum Expenditure   B) Maximum Income

C) Maximum Consumption   D) Maximum Satisfaction

6. A curve showing equal satisfaction from two commodities is ......

A) Demand curve   B) Supply curve   C) Opportunity curve   D) Indifference curve

7. In which form an entrepreneur receives his reward?

A) Profit   B) Wages   C) Rent   D) Interest

8. Who said "Interest is purely a Monetary Phenomenon"?

A) Prof. J. M. Keynes   B) Prof. Alfred Marshall   C) Prof. Robbins   D) Prof. Samuelson

9. Who said 'Economics is Science of Scarcity'?

A) Marshall   B) Robbins   C) Keynes   D) Adam Smith

10) What is the relationship between Price and supply?

A) Inverse   B) Direct   C) Unstable   D) No relation

(3)

(P.T.O)

Q-2. Discuss in detail the scarcity oriented definition of economics given by (10)
Prof. Robbins.

OR

Q-2. Write a detail note on the concept of Consumer's Surplus. (10)

Q-3. Discuss the process of equilibrium price with the help of demand and supply (10)
also explain the effects of changes on equilibrium price due to changes in
demand and supply.

OR

Q-3. State Law of Demand and discuss the factors affecting demand. (10)

Q-4. What is Indifference Curve? Explain with the help of diagram the properties of (10)
Indifference Curve.

OR

Q-4. Critically discuss the Law Diminishing Marginal Utility. (10)

Q-5. Explain the Marginal Productivity Theory of Distribution with its limitations. (10)

OR

Q-5. Write short note on: (10)
(A) Innovation Theory of Profit.
(B) Concept and types of Wages.

********************* *****

(4)

SEAT No._____ **SARDAR PATEL UNIVERSITY**

[44]
Eng.

NOVEMBER : 2024 EXAMINATION, B.COM. SEMESTER : I
SATURDAY, 23/11/2024
MORNING SESSON TIME : 10.00 TO 12.30
SUBJECT CODE : UB01MDCOM01
BUSINESS MATHEMATICS & STATISTICS - I

TOTAL MARKS : 50

Q-1 *Answer the following MCQ*   [10]

(1) If $f : A \to B$ then domain of the function is ....

(A) A   (B) B   (C) AB   (D) None of these

(2) $\lim_{x \to 0} \dfrac{x^3 + 3x + 4}{x^2 + 1}$

(A) 4   (B) 1   (C) 2   (D) None of these

(3) If any two row or columns of determinants are same then the value of determinant is

(A) Zero   (B) Opposite   (C) Inverse   (D) None of these

(4) If a set has no element then its known as_____ set

(A) Complement   (B) Subset   (C) None of these   (D) Empty

(5) Complement of set A is denoted by_____

(A) $\cap$ (B) A'   (C) $\subset$ (D) None of these

(6) $A * A^{-1} = $ --------------------

(A) Unit matrix   (B) Row matrix   (C) Orthogonal matrix (D) None of these

(7) For matrix multiplication 1st matrix column = 2nd matrix's ......

(A) Row   (B) column   (C) inverse   (D) None of these

(8) For matrix $A :_{3*2}$ and $B :_{2*3}$ then order of AB is ....

(A) 2*2   (B) 3*2   (C) 3*3   (D) None of these

(9) When all values are at equal interval and we need to find the missing value which is not at equal interval which method is used?

(A) Newton   (B) Binomial   (C) Lagrange   (D) None of these

(10) When all values are not at equal interval and we need to find the missing value then which method is used?

(A) Newton   (B) Binomial   (C) Lagrange   (D) None of these

Q-2 (A) Write any four rules of limit.   [04]

Q-2 (B) Find range and domain for following :   [06]

(1) f(x) = 2x+3, f : A→Z
    A = {-3, -2. -1, 0, 1, 2, 3}
(2) f(x) = 2x+1 f : A→B where A = { 3, 4, 5, 6} and B = {7, 9, 11, 13}

OR

Q-2 (A) Define domain, codomain and range for function.   [04]

①

(P.T.o.)

Q-2 (B) Evaluate [06]

(1) $\displaystyle\lim_{x \to 3} \frac{x^3 - 27}{x^2 - 3}$

(2) $\displaystyle\lim_{x \to -1} \frac{2x^2 + 3x + 1}{3x^2 + 4x + 1}$

Q-3 (A) Define the terms with examples subset, Nullset, Difference of two sets and complement [04] of a set.

Q-3 (B) If A = {1, 3}, B = {5, 6} and C = {6, 9} then verify [06]

(1) AX(B∩C) = (AXB) ∩ (AXC)
(2) AX(BUC) = (AXB) U (AXC)

OR

Q-3 (A) Write any four rules of determinant. [04]

Q-3 (B) Solve the following equations by Cramer's rule : [06]

$\dfrac{7}{x} + \dfrac{3}{y} = -4, \quad \dfrac{3}{x} - \dfrac{4}{y} = -7$

Q-4 (A) Define the terms with examples (1) Row matrix (2) Zero Matrix (3) Unit Matrix (4) [04] Square Matrix.

Q-4 (B) If $A = \begin{bmatrix} 1 & 3 \\ 2 & 8 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 5 \\ 1 & 4 \end{bmatrix}$ then verify [06]

(1) $(AB)^T = B^T A^T$
(2) $(A^T)^T = A$
(3) $(B^T)^T = B$

OR

Q-4 (A) If $A = \begin{bmatrix} 5 & 2 & -1 \\ 3 & -4 & 0 \end{bmatrix}$ and $B = \begin{bmatrix} -1 & -3 & 4 \\ 5 & 6 & 3 \end{bmatrix}$ and $C = \begin{bmatrix} -6 & -2 & -4 \\ 5 & 1 & -3 \end{bmatrix}$ then find [04]

(1) 3A-4B+2C
(2) 2A-B+C

Q-4 (B) Solve the following equation by using inverse matrix method. [06]

x+2y=8
3x+4y=14

Q-5 (A) Write the uses of interpolation an extrapolation. [04]

Q-5 (B) From the following data interpolate y for x=26 by using Newton's method. [06]

X	20	25	30	35	40
Y	23	26	30	35	42

OR

Q-5 (A) Find u_x for the following by using Bionomial expansion method. [04]

Year	2005	2010	2015	2020	2025
u_x	12	14	18	24	?

Q-5 (B) If log50 = 1·6940, log58 = 1·7634 and log60 = 1·7782 then find the valud of log55 by [06] lagrange's method.

——×——

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13
E+G

SARDAR PATEL UNIVERSITY
B.COM (SEMESTER - I) EXAMINATION-2024
UB01SECOM02: ENVIRONMENTAL STUDIES

Date: 25/11/2024, Monday
Time: 10:00 AM to 11:30 PM (1:30 Hours)

TOTAL MARKS: 25

Q-1   Multiple Choice Questions: [05]

1   What is the primary goal of environmental studies?

   A   Increase industrial growth

   B   Increase awareness of environmental issues

   C   Promote individual achievements

   D   Focus only on economic development

2   Sustainable development means_____.

   A   meeting present needs without compromising on future needs

   B   progress of human beings

   C   balance between human needs and the ability of earth to provide the resources

   D   All of the above

3   Which is a list of renewable resources?

   A   Petroleum, geothermal, wind

   B   Biomass, geothermal, hydropower

   C   Natural gas, wind, biomass

   D   Hydropower, solar, wind energy

4   Deforestation generally decreases_____.

   A   Rainfall

   B   Soil erosion

   C   Drought

   D   Global warming

5   Which out of the following are the causes of soil erosion?

   A   Unrestricted grazing

   B   Over cultivation

   C   Deforestation

   D   All of the above

Q-2   Define the meaning of Environmental Studies. Discuss the Scope and importance of Environmental studies.   [10]

OR

Q-2   Define the meaning of Natural Resources. Explain the Renewable and Non-Renewable resources in detail.   [10]

Q-3   Explain the threats to Water resources and Forest resources.   [10]

OR

Q-3   Explain the role of individual in conservation of natural resources.   [10]

①   (P.T.O.)

[4]

SARDAR PATEL UNIVERSITY

B.Com. Sem.-I (NEP)

UB01 AEC0M01: ENGLISH & BUSINESS COMMUNICATION-I

Date: 26 November, 2024, Tuesday

Time: 10:00 AM to 11:30 AM

Total marks 25 Marks

Note: Figures to the right indicate marks.

Q-1 Choose the appropriate option and write the correct answer (05)

1. What is the favorite food of Sii Sward that people offer her?

   (A) Mutton & rice   (B) Dry fish & rice

   (C) Puri Sabji   (D) Dal-fry & rice

2. The fellow prisoners in the jail called Aksionov as-

   (A) Brother & Friend   (B) Grandfather & the Saint

   (C) Father & the Saint   (D) None of these

3. A person going from one country to another to settle there is :

   (A) Immigrant   (B) Emigrant

   (C) Countryman   (D) None of these

4. If the doctor had come in time, he _____ the patient.

   (A) may have saved   (B) might have saved

   (C) might have been saved   (D) will have saved

5. Congenial means :

   (A) friendly   (B) pleasant

   (C) delightful   (D) all of these

Q-2 (A) Answer any four of the following questions (10)

1. What did Aksionov's wife tell him when he set out for the fair? What was his response to his wife's fear?
2. How was Thord's son baptized? How did the priest bless the child?
3. Who is the rain queen of the ceremony in the story "My Thai Cat"? why is she elected?
4. What happened to the son at the end of the story "The Father?" How did the son bring his father a "blessing"?
5. Describe how Sii Sward is prepared and carried to the ceremony.

OR

Q-2 (B) Write short note on any two of the following (10)

1. The rain ceremony
2. The character of Aksionov
3. Boat mishap in the story "The Father"

(P.T.O.)

(1)

Q-3 (A) Fill in the blanks with proper forms of verbs given in the brackets. (04)

1. They_____ (arrive) the college before the bell rang.

2. The train_____(leave) the platform when my friend reached the station.

3. His sister_____ (go) abroad for further study next year.

4. India _____ not _____ (win) the world Cup-2023.

Q-3 (B) Fill in the blanks with appropriate words given in the bracket. (03)

1. Ram and Shyam_____ business partners.

   (a) have   (b) has   (c) is   (d) are

2. Much_____ been said in the news reports so far.

   (a) Were   (b) have   (c) has   (d) was.

3. The crowd_____ dispersed by the police yesterday.

   (a) was   (b) were   (c) are   (d) has

Q-3 (C) Fill in the blanks with proper article "a, an or the" (03)

1. _____ apple a day keeps the doctor away.

2. I think studying is _____ best thing you can do.

3. His parents bought him _____ new bike yesterday.

OR

Q-3 (A) Fill in the blanks with proper Modal Auxiliary from those given bellow (05)

[need, should, could, dare, may]

1. How _____ you talk to my wife in this way?

2. The sky is cloudy. It _____ rain tonight.

3. I _____ swim across the river when I was young.

4. You_____ obey the advice of your teacher and parents.

5. Your child is safe in the hands of a policeman. You_____ not worry.

Q-3 (B) Match the words in "A" with their meanings in "B" (05)

A	B
(1) illegible -	(1) hardworking
(2) dear -	(2) unable to read
(3) cite -	(3) approach
(4) access -	(4) beloved
(5) industrious -	(5) quote

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