Paper I	(Objective Type)	**Ist– A – Exam 2024**	
Time :	15 Minutes	**Inter (Part – I)**	(Commerce Group)
Marks :	10	Session (2022 – 24) & (2023 – 25)	

BWP-24

Note : Four choices A , B , C ,D to each question are given. Which choice is correct fill that circle in front of that Question No. on the Objective Bubble Sheet. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

Q.No.1 (1)	The Simplest form of 40 : 240 is : (A) 6 : 1 (B) 1 : 6 (C) 2 : 6 (D) 6 : 3
(2)	If $\frac{35}{125} = \frac{7}{x}$; then x = : (A) 25 (B) 30 (C) 35 (D) 40
(3)	Simple Interest is Calculated by Formula : (A) $I = prt$ (B) $I = pt$ (C) $I = \frac{pt}{r}$ (D) $I = \frac{pr}{t}$
(4)	In which quadrant ; (–3 , 2) lies : (A) I (B) II (C) III (D) IV
(5)	If $4x - 6 = 2x + 8$ then value of x : (A) 4 (B) 5 (C) 6 (D) 7
(6)	The Solution Set of $x^2 - 1 = 0$ is : (A) $\{0, 1\}$ (B) $\{0, -1\}$ (C) $\{-1, 1\}$ (D) $\{1, 2\}$
(7)	$(11)_2 + (10)_2 =$: (A) $(100)_2$ (B) $(110)_2$ (C) $(101)_2$ (D) $(111)_2$
(8)	Conversion of $(4)_{10}$ into binary system is : (A) $(10)_2$ (B) $(11)_2$ (C) $(111)_2$ (D) $(100)_2$
(9)	For two matrices $(AB)^t =$ (A) $A^t B^t$ (B) AB^t (C) $B^t A^t$ (D) $A^t B$
(10)	If $A = \begin{bmatrix} 2 & 4 \\ 4 & 8 \end{bmatrix}$; then $\lvert A \rvert =$: (A) 0 (B) 32 (C) 16 (D) 10

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B

		(2022 – 24) & (2023 – 25)	
Business Mathematics (Subjective)	**Ist – A – Exam 2024**	Time : 1 : 45 Hours Marks : 40	(Commerce Group)

Note: It is compulsory to attempt any (6 – 6) Parts each from Q.No. 2 and Q.No.3 while attempt any (2) Questions from Part – II. Write same Question No. and its Part No. as given in the Question Paper.

Part - I

BWP-24

12 x 2 = 24

Q.No.2	(i)	Define Inverse Proportion .
	(ii)	Find x if $x : \frac{1}{4} :: 13 : 2$
	(iii)	15% of the Profit on Investment is Rs. 400/-. Find the Investment.
	(iv)	Find Simple Interest on Rs. 50,000/- invested for 3 years at rate of 4% p.a.
	(v)	A Shirt is sold at Rs. 960/- the shopkeeper lost 20%. Find the cost price of Shirt and loss.
	(vi)	Solve $4x - 2x = 7 + 3$
	(vii)	How many root contain linear equation?
	(viii)	Solve by Factorization $x^2 - 10x + 9 = 0$
	(ix)	Write down the Quadratic Formula.
Q.No.3	(i)	Find the range of relation $\{(1,4),(2,6),(3,12),(4,17)\}$
	(ii)	Draw the graph of $3x - 2y = 6$
	(iii)	Convert $(7777)_{10}$ to Binary Number System.
	(iv)	Convert $(101101)_2$ to Decimal Number System.
	(v)	Evaluate $(1101)_2 + (1111)_2$
	(vi)	Define " Row Matrix "
	(vii)	If $A = \begin{bmatrix} 2 & 4 \\ 3 & 7 \end{bmatrix}$ Find A^t.
	(viii)	If $A = \begin{bmatrix} 1 & 2 \\ -1 & 3 \end{bmatrix}$ Find $\|A\|$.
	(ix)	Find the value of x , if $\begin{bmatrix} 2 & 1 \\ 3 & x \end{bmatrix}$ is a Singular Matrix.

Part - II

8 x 2 = 16

Q.No.4	(a)	Mr. Khan , Mr . Furqan and Mr. Touseef are three partners , they earn a Profit of Rs. 18000/- . The Profit can be shared in the ratio **A : B = 2 : 5 and B : C = 10 : 4** Find Share of each Partner in Profit.	(4)
	(b)	Find the amount of an annuity of Rs. 1200/- Payable at the end of each year for 15 years at the rate of 8% Compounded annually.	(4)
Q.No.5	(a)	If $f(x) = x^2 - 2x + 1$ find f(2) , f(0) , f(– 1) and f(3)	(4)
	(b)	Solve the equation by factorization method $x^2 - 10x = 24$	(4)
Q.No.6	(a)	Solve the system of equations by use of matrices method : $x + 4y = 5$ $3x - 2y = 1$	(4)
	(b)	Simplify $(1001)_2 \times (101)_2$	(4)

29-04-2024

B

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