

			2.74.140. 1337	Paper Code No. 8641
Paper I		(Objective Type)	Ist- A - Exam 2024	
Time :		15 Minutes	Inter (Part – i)	(Commerce Group)
Marks :		10	Session (2022 – 24) & (2023 – 25)	

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.

·	The Cimplest form of the Orion
Q.No.1	The Simplest form of 40: 240 is:
(1)	(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 $A = \begin{pmatrix} 2 & 4 \\ 4 & 8 \end{pmatrix}$; then $ A = :$
	(A) 0 (B) 32 (C) 16 (D) 10

Business Mathematics Ist - A - Exam Time : 1:45 Hours (Commerce Group)				(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.

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 4 X - 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 $A^{\frac{1}{4}}$. (viii) If $A = \begin{bmatrix} 1 & 3 \\ 3 & x \end{bmatrix}$ Find $A^{\frac{1}{4}}$. (viii) If $A = \begin{bmatrix} 1 & 3 \\ 3 & x \end{bmatrix}$ Find $A^{\frac{1}{4}}$. (b) Find the value of x, if $\begin{bmatrix} 2 & 1 \\ 3 & x \end{bmatrix}$ is a Singular Matrix. Part - II								
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