

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE 1ST ANNUAL EXAMINATION, 2025

Name of Subject: Business Mathematics

Group: جی/ب

Q. Nos	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer
	2641		2643		2645		2647	
1	D	4	A	Identity	D	2 variables	A	Two classes
2	A, B, C, D	All correct	B	(1111) ₂	C	+2	A	2
3	A	Two classes	D	4	A	System of linear equation	D	2 variables
4	A	2	A, B, C, D	All correct	D	straight line	C	+2
5	D	2 variables	A	Two classes	A	Identity matrix	A	System of linear equations
6	C	+2	A	2	B	(1111) ₂	D	Straight line
7	A	System of linear equation	D	2 variables	D	4	A	Identity matrix
8	D	Straight line	C	+2	A, B, C, D	All correct	B	(1111) ₂
9	A	Identity matrix	A	System of linear equation	A	Two classes	D	4
10	B	(1111) ₂	D	Straight line	A	2	A, B, C, D	All correct
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Cross Check	A	B	C	D	A	B	C	D
Total	5	1	1	3	5	1	1	3

سرٹیفکیٹ بابت نتیجہ سوالیہ پرچہ امارت گاہ

ہم نے Business Math پرچہ I فرسٹ گروپ کا مرسس انٹر میڈیٹ پہلا سالانہ امتحان 2025 کا سوالیہ پرچہ انشائیہ و مشقی (Subjective & Objective) کو منظر عین چیک کر لیا ہے یہ پرچہ Syllabus کے ہیں مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریزی Version بھی چیک کر لیا ہے۔ یہ Version آپس میں مطابقت رکھتے ہیں۔ نیز اس پرچہ کی Key (MCQs) کی بابت تصدیق کی جاتی ہے کہ اس میں بھی کسی قسم کی کوئی غلطی نہ ہے۔ مزید یہ کہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیار کردہ ہدایات کو مدلل کر کے ان کا بغور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب ایگزامینرز کو کیلئے تفصیلی مارک گ ہدایات / مارک گ سیم / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 21-05-2025

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4					
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2025 (1 st -A)		Roll No:
INTERMEDIATE PART-I (11 th Class)		
BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I		
TIME ALLOWED: 1.45 Hours	SUBJECTIVE	MAXIMUM MARKS: 40
NOTE: Write same question number and its parts number on answer book, as given in the question paper.		
SECTION-I		
2. Attempt any six parts.		6 × 2 = 12
(i)	Find x if $45 : 60 :: 900 : x$.	
(ii)	Calculate Zakat on an amount of Rs.500000.	
(iii)	Express 2% as a fraction.	
(iv)	Find simple interest to Rs.60000 borrowed for 3 years at 8% per annum.	
(v)	Write any two types of annuity.	
(vi)	What is principal amount?	
(vii)	Ali got 900 marks out of 1100 marks. Find his percentage of marks.	
(viii)	Solve $2y + 9 = 3$	
(ix)	Find the value of x , if $2x - 7 = 13$	
3. Attempt any six parts.		6 × 2 = 12
(i)	Define Linear function.	
(ii)	Find the equation of straight line whose slope is -2 and y -intercept $\frac{4}{5}$.	
(iii)	Convert $(11111)_2$ to base 10.	
(iv)	Find $(1101)_2 + (110)_2$	
(v)	Convert 28 to base 2.	
(vi)	Find $(101)_2 \times (111)_2$	
(vii)	Define symmetric matrix.	
(viii)	If $A = \begin{bmatrix} 2 & 1 \\ 1 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$, then find $3A - 2B$.	
(ix)	Write the transpose of $\begin{bmatrix} 3 & 2 \\ 4 & 6 \\ 7 & 2 \end{bmatrix}$	
SECTION-II		
NOTE: Attempt any two questions.		2 × 8 = 16
4.(a)	If 14 workers can dig a trench 630m long in 18 days. How many workers can dig a trench 770m in 28 days?	
(b)	Find compound amount and compound interest when $P = Rs : 2000$ $n = 2$ years interest rate = 8 percent per compounded semi-annually.	
5.(a)	Solve the equation $3^{2x} + 9 = 10.3^x$	
(b)	Draw a graph of st. line $3x + 2y = 5$	
6.(a)	Solve $x - y = 7$, $x + y = 11$ by matrix method.	
(b)	Evaluate $(11011)_2 \times (1101)_2 - (11011)_2$	

Paper Code Number: 2641		2025 (1 st -A) INTERMEDIATE PART-I (11 th Class)		Roll No:	
BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I					
TIME ALLOWED: 15 Minutes			OBJECTIVE		MAXIMUM MARKS: 10
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	If $\frac{2}{5} = \frac{x}{10}$	3	2	5	4
2	Express 23% as a fraction.	2.03	23	$\frac{23}{10}$	$\frac{230}{10}$
3	Interest is classified in:	Two classes	3 classes	4 classes	5 classes
4	Annuity is classified into categories:	2	3	4	5
5	$2x + 3y = 5$ is a linear equation in:	One variable	Zero variable	3 variables	2 variables
6	If $2x^2 - 8 = 0$ then solution set is:	2	-2	± 2	3
7	A set of at least two equations is called:	System of linear equations	Proper equations	Improper equations	Quadratic equations
8	The graph of $x + y = 0$ is a:	Hyperbola	Circle	Parabola	Straight line
9	The matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is called:	Identity matrix	Null matrix	Singular matrix	Row matrix
10	The conversion of 15 into binary number system is:	$(1011)_2$	$(1111)_2$	$(1101)_2$	$(1110)_2$

88(Obj)(☆)-2025(1st-A)-3000 (MULTAN)

Paper Code Number: 2643		2025 (1 st -A) INTERMEDIATE PART-I (11 th Class)		Roll No: _____	
BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I					
TIME ALLOWED: 15 Minutes		OBJECTIVE		MAXIMUM MARKS: 10	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	The matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is called:	Identity matrix	Null matrix	Singular matrix	Row matrix
2	The conversion of 15 into binary number system is:	$(1011)_2$	$(1111)_2$	$(1101)_2$	$(1110)_2$
3	If $\frac{2}{5} = \frac{x}{10}$	3	2	5	4
4	Express 23% as a fraction.	$\frac{23}{100}$	$\frac{23}{10}$	$\frac{23}{10}$	$\frac{230}{10}$
5	Interest is classified in:	Two classes	3 classes	4 classes	5 classes
6	Annuity is classified into categories:	2	3	4	5
7	$2x + 3y = 5$ is a linear equation in:	One variable	Zero variable	3 variables	2 variables
8	If $2x^2 - 8 = 0$ then solution set is:	2	-2	± 2	3
9	A set of at least two equations is called:	System of linear equations	Proper equations	Improper equations	Quadratic equations
10	The graph of $x + y = 0$ is a:	Hyperbola	Circle	Parabola	Straight line

88(Obj)(☆☆)-2025(1st-A)-3000 (MULTAN)

Paper Code Number: 2645		2025 (1 st -A) INTERMEDIATE PART-I (11 th Class)		Roll No: _____	
BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I					
TIME ALLOWED: 15 Minutes		OBJECTIVE		MAXIMUM MARKS: 10	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	$2x + 3y = 5$ is a linear equation in:	One variable	Zero variable	3 variables	2 variables
2	If $2x^2 - 8 = 0$ then solution set is:	2	-2	+2	3
3	A set of at least two equations is called:	System of linear equations	Proper equations	Improper equations	Quadratic equations
4	The graph of $x + y = 0$ is a:	Hyperbola	Circle	Parabola	Straight line
5	The matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is called:	Identity matrix	Null matrix	Singular matrix	Row matrix
6	The conversion of 15 into binary number system is:	$(1011)_2$	$(1111)_2$	$(1101)_2$	$(1110)_2$
7	If $\frac{2}{5} = \frac{x}{10}$	3	2	5	4
8	Express 23% as a fraction.	2.03	23	$\frac{23}{10}$	$\frac{230}{10}$
9	Interest is classified in:	Two classes	3 classes	4 classes	5 classes
10	Annuity is classified into categories:	2	3	4	5

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Paper Code Number: 2647		2025 (1 st -A) INTERMEDIATE PART-I (11 th Class)		Roll No: _____	
BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I					
TIME ALLOWED: 15 Minutes		OBJECTIVE		MAXIMUM MARKS: 10	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	Interest is classified in:	Two classes	3 classes	4 classes	5 classes
2	Annuity is classified into categories:	2	3	4	5
3	$2x + 3y = 5$ is a linear equation in:	One variable	Zero variable	3 variables	2 variables
4	If $2x^2 - 8 = 0$ then solution set is:	2	-2	± 2	3
5	A set of at least two equations is called:	System of linear equations	Proper equations	Improper equations	Quadratic equations
6	The graph of $x + y = 0$ is a:	Hyperbola	Circle	Parabola	Straight line
7	The matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is called:	Identity matrix	Null matrix	Singular matrix	Row matrix
8	The conversion of 15 into binary number system is:	$(1011)_2$	$(1111)_2$	$(1101)_2$	$(1110)_2$
9	If $\frac{2}{5} = \frac{x}{10}$	3	2	5	4
10	Express 23% as a fraction.	$\frac{23}{100}$	$\frac{23}{10}$	$\frac{23}{10}$	$\frac{230}{10}$

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