

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE 1st ANNUAL EXAMINATION, 2026

Name of Subject: Business Mathematics

Group: NIL

Q. Nos	Paper Code 2641	Correct Answer	Paper Code 2643	Correct Answer	Paper Code 2645	Correct Answer	Paper Code 2647	Correct Answer
1	C	6	A	3	D	odd function	D	Decimal Number System
2	B	20%	C	(1001) ₂	B	-1, -2	B	A
3	A	P&L	D	Decimal Number System	A	3	C	B ^T = -B
4	D	odd function	B	A	C	(1001) ₂	C	6
5	B	-1, -2	C	B ^T = -B	D	Decimal Number System	B	20%
6	A	3	C	6	B	A	A	P&L
7	C	(1001) ₂	B	20%	C	B ^T = -B	D	odd function
8	D	Decimal Number System	A	P&L	C	6	B	-1, -2
9	B	A	D	odd function	B	20%	A	3
10	C	B ^T = -B	B	-1, -2	A	P&L	C	(1001) ₂
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Cross Check	A	B	C	D	A	B	C	D
Total	2	3	3	2	2	3	3	2

مرٹیکٹ باہت صحیح سوالیہ پرچہ امارنگ

ہم نے مضمون Business Maths پرچہ I گرپ NIL انٹرمیڈیٹ پہلا سالانہ امتحان 2026ء سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عمیق چیک کر لیا ہے یہ پرچہ Syllabus کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی 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 معروضی (MCQs) Key باہت 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 وصول کر کے ان کا بغور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب ایگزامینرز کیلئے تفصیلی مارکنگ ہدایات / مارکنگ سیمہ / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated:

S.#	Name	Designation	Institution	Mobile No	Signature
1	HAB NAWAZ	SSS	GHSS Lar Multan	0300 718 7736	
2	Khuram Shahzad	A.P	G.C Civil Lines Multan	0321 634 3022	
3					
4					
5					

2026 (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. Write answers of any six parts.		6 × 2 = 12
(i)	Divide Rs.750 in the ratio 3 : 2	
(ii)	Find mean proportional between 4 and 64.	
(iii)	If 20 men can prepare 10 tables in a day. How many men are required to prepare 25 tables in a day?	
(iv)	Find simple interest on Rs.2,000 invested for 4 years at the rate of 2% annually.	
(v)	Differentiate between simple interest and compound interest.	
(vi)	Find the compound amount at the end of 4 years if a sum of Rs.5,000 is borrowed at 10% annually.	
(vii)	Solve $2y + 9 = 3$	
(viii)	Solve $x^2 - 4x - 32 = 0$	
(ix)	Discuss the nature of roots of $2x^2 - 7x + 3 = 0$	
3. Write answers of any six parts.		6 × 2 = 12
(i)	The sum of two numbers is 47. If one number is 5 more than other, what is the smaller number?	
(ii)	Solve $a(x - a) + b(x - b) = 2ab$	
(iii)	Find the discriminant of $2x^2 = 1 - 7x$	
(iv)	Evaluate $(945)_{10} + (100)_2 = ()_{10}$	
(v)	Subtract $(1011)_2$ from $(10110)_2$	
(vi)	Multiply $(1011)_2$ and $(101)_2$	
(vii)	If $AX = B$: A , X , B are matrices where $ A \neq 0$ show that $X = A^{-1}B$	
(viii)	If $2x + 3y = 8$, $y = 6 - 4x$, then write in matrix form and also find determinant of matrix of coefficient.	
(ix)	Whether or not matrix of coefficients of the system $2x + 3y = 8$, $6x + 9y = 24$ is singular.	
SECTION-II		
NOTE: Write answers of any two questions.		2 × 8 = 16
4.(a)	If 20 men can finish a job in 13 days. How many men are required to do the same job in 4 days?	
(b)	Find compound interest on Rs.7,000 for four year at 5% per annum.	
5.(a)	Solve the equation $2x + 3 = 6 - (2x - 3)$	
(b)	If $f(x) = x^2 - 6x^2 - 7$ then find $f(0)$, $f(1)$, $f(-2)$ and $f(2)$.	
6.(a)	Use Cramer's rule to solve the given system $2x + 3y = 5$, $x + 2y = 3$	
(b)	Change the given into decimal numbers $(1110)_2$	

PAPER CODE: 2641		2026 (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 fourth proportional to $1 : 2 :: 3 : x$ is:		2	3	6	12	
2	What percent is 40 of 200?		10%	20%	30%	40%	
3	The formula of simple interest is:		$Pr t$	$\frac{Pt}{r}$	$\frac{Pr}{t}$	$\frac{P}{rt}$	
4	If $f(-x) = -f(x)$, then f is called:		Linear function	Identity function	Even function	Odd function	
5	Roots of equation $x^2 + 3x + 2 = 0$ are:		-1, 2	-1, -2	1, -2	1, 2	
6	If $11x - 9 = 9x - 3$, then $x =$		3	2	4	5	
7	The decimal number 9 in the base 2 is:		$(10)_2$	$(1000)_2$	$(1001)_2$	$(1010)_2$	
8	The number system used to everyday life is called:		Binary Number System	Hexadecimal Number System	Octal Number System	Decimal Number System	
9	For any square matrix A , $ A' $ will be equal to: _____		A^{-1}	$ A $	$-A$	$Adj(A)$	
10	A matrix B is called skew symmetric if:		$B = B^{-1}$	$B' = B$	$B' = -B$	$B' = -B^2$	

PAPER CODE: 2643		2026 (1 st -A)		Roll No: _____	
		INTERMEDIATE PART-I (11 th Class)			
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 $11x - 9 = 9x - 3$, then $x =$	3	2	4	5
2	The decimal number 9 in the base 2 is:	$(10)_2$	$(1000)_2$	$(1001)_2$	$(1010)_2$
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9	If $f(-x) = -f(x)$, then f is called:	Linear function	Identity function	Even function	Odd function
10	Roots of equation $x^2 + 3x + 2 = 0$ are:	-1, 2	-1, -2	1, -2	1, 2

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