

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE 2nd ANNUAL EXAMINATION, 2025

Name of Subject: Business Mathematics

Group: Nil

Q. Nos	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer
1	2641	A	2643	C	2645	C	2647	B
2		B		B		A		D
3		C		A		B		B
4		B		C		D		A
5		A		A		B		B
6		C		B		A		C
7		A		D		B		B
8		B		B		C		A
9		D		A		B		C
10		B		B		A		A
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Cross Check	A B C D		A B C D		A B C D		A B C D	
Total	3 4 2 1		3 4 2 1		3 4 2 1		3 4 2 1	

سرٹیفکیٹ بابت صحیح سوالیہ پرچہ / مارکنگ Key

ہم نے مضمون Business Math پرچہ 1st گروپ 1st انٹرمیڈیٹ دوسرا سالانہ امتحان 2025 کا 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 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 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 سکیم / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 17-11-2025

S.#	Name	Designation	Institution	Mobile No	Signature
1	Khuwram Shahzad	Assistant Professor	Govt Graduate College Civil Lines Multan	03216343012	
2	HAG NAWAZ	SSS	GHSS Lar Multan	030071877	
3	M. Arif	A.P	G.G. Collg of Science Multan	0300-8682996	
4					
5					

2025 (2 nd -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)	Express in reduced form 24 : 64	
(ii)	Divide Rs.6000 in the ratio 5 : 7	
(iii)	Find 20% of 800 marks.	
(iv)	Find the simple interest on Rs.2000 for one year at 10%.	
(v)	Define Compound interest.	
(vi)	Write down the Quadratic formula.	
(vii)	Solve the equation $x + y = 12$, $x - y = 8$	
(viii)	Solve the equation $3x + 2 = 2x + 6$	
(ix)	What is commission on Rs.3000 at rate of 5%?	
3. Attempt any six parts.		6 × 2 = 12
(i)	Define Linear equation.	
(ii)	Find the equation of straight line where slope is 3 and y -intercept -5.	
(iii)	Convert 23 to binary number.	
(iv)	Convert $(11001)_2$ to base 10.	
(v)	Find $(11010)_2 + (10111)_2$	
(vi)	Multiply $(11101)_2$ by $(101)_2$	
(vii)	Find the additive inverse of $\begin{bmatrix} 7 & -9 \\ 6 & -2 \end{bmatrix}$	
(viii)	Define Column Matrix.	
(ix)	If $A = \begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 1 \\ 6 & 2 \end{bmatrix}$, show that $A + B = B + A$	
SECTION-II		
NOTE: Attempt any two questions.		2 × 8 = 16
4.(a)	If 15 dozen of eggs cost Rs.200. How much will 96 eggs cost?	04
(b)	Find the simple interest to Rs.60,000 borrowed for 3 years at 8% per annum.	04
5.(a)	Find $f(1)$, $f(2)$, $f(3)$, $f(5)$. If $f(x) = x^2 - 9x + 17$	04
(b)	Solve the equation $\frac{3x^2 - 4}{3} + \frac{x - 3}{2} = \frac{7}{6}$	04
6.(a)	Solve $2x + 5y = 9$, $x + 2y = 4$ by Cramer rule.	04
(b)	Evaluate $(1001)_2 + \{(1111)_2 - (1010)_2\}$	04

Paper Code Number: 2641		2025 (2 nd -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 $\frac{1}{2} = \frac{x}{2}$ then the value of x is:	1	2	3	4
2	The number 300 into percentage form is:	3.5%	3%	2.5%	7%
3	Compound amount formula is:	$P(1+i)$	Prt	$P(1+i)^n$	$P(1-i)$
4	Sum of annuity is always:	Future value	Present value	Current value	Past value
5	The equation $2x + y = 0$ is a:	Linear equation	Quadratic equation	Cubic equation	Zero degree equation
6	If $ax^2 + bx + c = 0$ is a quadratic equation then sum of roots is:	$\frac{a}{b}$	$\frac{c}{a}$	$\frac{-b}{a}$	$\frac{b}{a}$
7	In the simultaneous linear equations the degree of all the equations is:	1	2	3	4
8	If $f(x) = 1 + \frac{1}{x}$ then $f(1) =$	1	2	3	5
9	If $A = \begin{bmatrix} 1 & 2 \end{bmatrix}$ then the order of A is:	1×1	2×2	2×1	1×2
10	The decimal form of the binary number $(10)_2$ is:	3	2	4	5

Paper Code Number: 2643		2025 (2 nd -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	Compound amount formula is:	$P(1+i)$	Prt	$P(1+i)^n$	$P(1-i)$
2	Sum of annuity is always:	Future value	Present value	Current value	Past value
3	The equation $2x + y = 0$ is a:	Linear equation	Quadratic equation	Cubic equation	Zero degree equation
4	If $ax^2 + bx + c = 0$ is a quadratic equation then sum of roots is:	$\frac{a}{b}$	$\frac{c}{a}$	$-\frac{b}{a}$	$\frac{b}{a}$
5	In the simultaneous linear equations the degree of all the equations is:	1	2	3	4
6	If $f(x) = 1 + \frac{1}{x}$ then $f(1) =$	1	2	3	5
7	If $A = \begin{bmatrix} 1 & 2 \end{bmatrix}$ then the order of A is:	1×1	2×2	2×1	1×2
8	The decimal form of the binary number $(10)_2$ is:	3	2	4	5
9	If $\frac{1}{2} = \frac{x}{2}$ then the value of x is:	1	2	3	4
10	The number 300 into percentage form is:	3.5%	3%	2.5%	7%

Paper Code Number: 2645		2025 (2 nd -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 $ax^2 + bx + c = 0$ is a quadratic equation then sum of roots is:	$\frac{a}{b}$	$\frac{c}{a}$	$-\frac{b}{a}$	$\frac{b}{a}$
2	In the simultaneous linear equations the degree of all the equations is:	1	2	3	4
3	If $f(x) = 1 + \frac{1}{x}$ then $f(1) =$	1	2	3	5
4	If $A = \begin{bmatrix} 1 & 2 \end{bmatrix}$ then the order of A is:	1×1	2×2	2×1	1×2
5	The decimal form of the binary number $(10)_2$ is:	3	2	4	5
6	If $\frac{1}{2} = \frac{x}{2}$ then the value of x is:	1	2	3	4
7	The number 300 into percentage form is:	3.5%	3%	2.5%	7%
8	Compound amount formula is:	$P(1+i)$	Prt	$P(1+i)^n$	$P(1-i)$
9	Sum of annuity is always:	Future value	Present value	Current value	Past value
10	The equation $2x + y = 0$ is a:	Linear equation	Quadratic equation	Cubic equation	Zero degree equation

Paper Code Number: 2647		2025 (2 nd -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 $f(x) = 1 + \frac{1}{x}$ then $f(1) =$	1	2	3	5
2	If $A = \begin{bmatrix} 1 & 2 \end{bmatrix}$ then the order of A is:	1×1	2×2	2×1	1×2
3	The decimal form of the binary number $(10)_2$ is:	3	2	4	5
4	If $\frac{1}{2} = \frac{x}{2}$ then the value of x is:	1	2	3	4
5	The number 300 into percentage form is:	3.5%	3%	2.5%	7%
6	Compound amount formula is:	$P(1+i)$	Prt	$P(1+i)^n$	$P(1-i)$
7	Sum of annuity is always:	Future value	Present value	Current value	Past value
8	The equation $2x + y = 0$ is a:	Linear equation	Quadratic equation	Cubic equation	Zero degree equation
9	If $ax^2 + bx + c = 0$ is a quadratic equation then sum of roots is:	$\frac{a}{b}$	$\frac{c}{a}$	$\frac{-b}{a}$	$\frac{b}{a}$
10	In the simultaneous linear equations the degree of all the equations is:	1	2	3	4