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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE 2nd ANNUAL EXAMINATION, 2024

Name of Subject: BUSINESS MATHEMATICS Group:

Q. Nos	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer
	2641		2643		2645		2647	
1	B	5:9	C	12	A	4,5	B	Rs. 900
2	B	Two	D	(1000) ₂	B	1x3	D	IV. quadrant
3	B	Rs. 900	A	0 and 1	C	12	C	1
4	D	IV. quadrant	B	5:9	D	(1000) ₂	A	4,5
5	C	1	B	Two	A	0 and 1	B	1x3
6	A	4,5	B	Rs. 900	B	5:9	C	12
7	B	1x3	D	IV. quadrant	B	Two	D	(1000) ₂
8	C	12	C	1	B	Rs. 900	A	0 and 1
9	D	(1000) ₂	A	4,5	D	IV. quadrant	B	5:9
10	A	0 and 1	B	1x3	C	1	B	Two
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	2 4 2 2		2 4 2 2		2 4 2 2		2 4 2 2	

سرٹیفکیٹ بابت تصحیح سوالیہ پرچہ / مارکنگ Key

ہم نے مضمون بزنس مٹھ پرچہ 1 گروپ _____ انٹر میڈیٹ دوسرا سالانہ امتحان 2024 کا سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عین 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: 16-11-24

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Paper Code Number: 2641		2024 (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	The ratio between 2.5Kg and 4.5Kg is;	2 : 5	5 : 9	9 : 5	5 : 8
2	Main types of proportion are:	One	Two	Three	Four
3	The simple interest on Rs.15000 for 3 years at 2% is:	Rs.1000	Rs.900	Rs.2500	Rs.2000
4	The point (4, -10) lies in the:	I – quadrant	II – quadrant	III – quadrant	IV – quadrant
5	The solution of $\sqrt{x} + 3 = 4$ is:	0	2	1	-1
6	The solution of $(x - 4)(x - 5) = 0$ is:	4, 5	-4, 5	-4, -5	4, -5
7	The order of the matrix $\begin{bmatrix} 4 & 3 & 1 \end{bmatrix}$ is:	4×1	1×3	1×4	3×1
8	If $A = \begin{bmatrix} 2 & 4 \\ 6 & x \end{bmatrix}$ is singular matrix then "x" is:	10	0	12	24
9	$(101)_2 + (11)_2$ is equal to:	$(101)_2$	$(111)_2$	$(110)_2$	$(1000)_2$
10	Binary system based on digits:	0 and 1	0 to 7	0 to 9	0 to 15

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Paper Code Number: 2643		2024 (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 $A = \begin{bmatrix} 2 & 4 \\ 6 & x \end{bmatrix}$ is singular matrix then "x" is:	10	0	12	24
2	$(101)_2 + (11)_2$ is equal to:	$(101)_2$	$(111)_2$	$(110)_2$	$(1000)_2$
3	Binary system based on digits:	0 and 1	0 to 7	0 to 9	0 to 15
4	The ratio between 2.5Kg and 4.5Kg is;	2 : 5	5 : 9	9 : 5	5 : 8
5	Main types of proportion are:	One	Two	Three	Four
6	The simple interest on Rs.15000 for 3 years at 2% is:	Rs.1000	Rs.900	Rs.2500	Rs.2000
7	The point (4, -10) lies in the:	I – quadrant	II – quadrant	III – quadrant	IV – quadrant
8	The solution of $\sqrt{x} + 3 = 4$ is:	0	2	1	-1
9	The solution of $(x - 4)(x - 5) = 0$ is:	4, 5	-4, 5	-4, -5	4, -5
10	The order of the matrix $\begin{bmatrix} 4 & 3 & 1 \end{bmatrix}$ is:	4×1	1×3	1×4	3×1

Paper Code Number: 2645		2024 (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	The solution of $(x-4)(x-5)=0$ is:	4, 5	-4, 5	-4, -5	4, -5
2	The order of the matrix $\begin{bmatrix} 4 & 3 & 1 \end{bmatrix}$ is:	4×1	1×3	1×4	3×1
3	If $A = \begin{bmatrix} 2 & 4 \\ 6 & x \end{bmatrix}$ is singular matrix then "x" is:	10	0	12	24
4	$(101)_2 + (11)_2$ is equal to:	$(101)_2$	$(111)_2$	$(110)_2$	$(1000)_2$
5	Binary system based on digits:	0 and 1	0 to 7	0 to 9	0 to 15
6	The ratio between 2.5Kg and 4.5Kg is;	2 : 5	5 : 9	9 : 5	5 : 8
7	Main types of proportion are:	One	Two	Three	Four
8	The simple interest on Rs.15000 for 3 years at 2% is:	Rs.1000	Rs.900	Rs.2500	Rs.2000
9	The point (4, -10) lies in the:	I – quadrant	II – quadrant	III – quadrant	IV – quadrant
10	The solution of $\sqrt{x} + 3 = 4$ is:	0	2	1	-1

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Paper Code Number: 2647		2024 (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	The simple interest on Rs.15000 for 3 years at 2% is:	Rs.1000	Rs.900	Rs.2500	Rs.2000
2	The point (4, -10) lies in the:	I – quadrant	II – quadrant	III – quadrant	IV – quadrant
3	The solution of $\sqrt{x} + 3 = 4$ is:	0	2	1	-1
4	The solution of $(x - 4)(x - 5) = 0$ is:	4, 5	-4, 5	-4, -5	4, -5
5	The order of the matrix $\begin{bmatrix} 4 & 3 & 1 \end{bmatrix}$ is:	4×1	1×3	1×4	3×1
6	If $A = \begin{bmatrix} 2 & 4 \\ 6 & x \end{bmatrix}$ is singular matrix then "x" is:	10	0	12	24
7	$(101)_2 + (11)_2$ is equal to:	$(101)_2$	$(111)_2$	$(110)_2$	$(1000)_2$
8	Binary system based on digits:	0 and 1	0 to 7	0 to 9	0 to 15
9	The ratio between 2.5Kg and 4.5Kg is;	2 : 5	5 : 9	9 : 5	5 : 8
10	Main types of proportion are:	One	Two	Three	Four

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2024 (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)	Find the ratio between one hour and 30 minutes.	
(ii)	Divide Rs.60000 in the ratio 5 : 7.	
(iii)	Find 55% of 800.	
(iv)	Find the principal amount if the simple interest is Rs.500 for 5 years at the rate of 5%.	
(v)	Define Discount.	
(vi)	Solve $4x - 3 = 2x + 7$	
(vii)	Solve $3x + 9 = 12$	
(viii)	Find x , if $x^2 - 5x + 6 = 0$	
(ix)	Factorize $x^2 - 9x + 14 = 0$	
3. Attempt any six parts.		6 × 2 = 12
(i)	Define even function and give example.	
(ii)	If $f(x) = 5x - 2$ and $g(x) = 2x + 1$, then find the values of $(f - g)(x)$ and $(f \cdot g)(x)$	
(iii)	Convert $(75)_{10}$ into binary system.	
(iv)	Simplify $(110111)_2 - (11101)_2$	
(v)	Convert $(10111.1)_2$ into decimal system.	
(vi)	If $A = \begin{bmatrix} 1 & 2 & 0 \\ 4 & 5 & 6 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & -2 \\ 2 & 0 \\ 3 & 4 \end{bmatrix}$, then find AB	
(vii)	Define a non-singular matrix and give example.	
(viii)	If $A = \begin{bmatrix} -2 & 5 \\ 6 & 7 \end{bmatrix}$ and $B = \begin{bmatrix} 6 & 8 \\ 4 & -4 \end{bmatrix}$, then find the value of $A + 2B$	
(ix)	If $A = \begin{bmatrix} x-4 & -2 \\ 3 & 1 \end{bmatrix}$, then find the value of x for which $ A = 10$	
SECTION-II		
NOTE: Attempt any two questions.		2 × 8 = 16
4.(a)	A train travel 144km distance in 2 hours. What distance will it travel in 50 minutes with same speed?	4
(b)	Find the compound interest earn when Rs.8000 is invested at 8% compounded annually for 10 years.	4
5.(a)	Draw the graph of $y = 3x - 5$	4
(b)	Solve $\frac{1}{x+3} - \frac{1}{x-3} = 3$, $x \neq \pm 3$	4
6.(a)	Verify that $(AB)^t = B^t A^t$ where $A = \begin{bmatrix} 2 & 4 \\ 1 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 1 & 4 \\ 2 & 3 \end{bmatrix}$	4
(b)	Simplify $[(1011)_2 \times (111)_2] - (19)_{10}$	4