

EXAMINATION MATERIAL ZUEB - 2022

BUSINESS MATHEMATICS XI (COMMERCE).

SECTION "A"

MULTIPLE CHOICE QUESTION (MCQ'S)

CHAPTERS NAME	MCQs (Multiple Choice Question
CHAPTER 1	1. The number 0, 1, 2, 3, 4 are called.
	a. Natural numbers.
INTRODUCTION	b. Odd numbers
	c. Whole numbers.
	d. Even numbers.
	2. The number 1, 2, 3, 4 are called.
	a. Even numbers.
	b. Whole numbers
	c. Natural numbers
	d. Odd numbers.
	3. The number -3, -2, -1, 0, 1, 2, 3 are called.
	a. Whole numbers.
	b. Natural numbers
	c. Integers.
	d. Even numbers
	4. $\sqrt{16} + \sqrt{9} =$
	a. 25
	b. 144
	c. 7
	d. 5
	5. $(-3)^4 =$
	a81.
	b12
	c. 81.
	d. 12.
	6. A number with 1 index is always
	a. One
	b. Zero
	c. Square of that number
	d. The same number

	7. A number with zero index is equal to;
	a. Zero
	b. Same number
	c. One
	d. two
	8. $a^2 - b^2 = ?$
	a. (a – b) (a – b)
	b. (a + b) (a + b)
	c. (a – b) (a + b)
	d. (b + a) (b + a)
CHAPTER 2	9. 17% of 300 is
	a. 51
RATIO,	b. 34
	c. 17
PROPORTION	d. 50
AND	
PERCENTAGE:	10. If 12 men can do piece of work in 12 days, 6 men will do the same work
	in days?
	a 6
	b. 12
	c. 24
	d. 72
	11. The ratio of 150cm to 3m is
	a. 50:1
	b. 1:2
	c. 2:1
	d. 4: 2
	12. Equality of two ratios is called;
	a. Ratio
	b. Compound
	c. Quantity
	d. Proportion
	13. If Selling Price is greater than Cost Price then it has a
	a. Loss
	b. Profit
	c. Neither profit or loss
	d. Interest
	14. More money, more shopping is an example of
	a. Direct Proportion
	b. Inverse Proportion
	c. Neither Direct nor Inverse Proportion
	d. Compound Proportion

- 15. Problems involving more than two ratios, the proportion is said to be
 - a. Direct
 - b. Indirect
 - c. **Compound** Inverse
- 16. The ratio of 2 hours to 45 minutes is
 - a. 2:45
 - b. **8:3**
 - c. 2:9
 - d. 4:3
- 17. The ratio of 5 feet to 30 inches is:
 - a. 2:1
 - b. 1:2
 - c. 1:6
 - d. 6:1
- 18. Larger the number of laborers, lesser will be the time taken to do a certain work is an example of;
 - a. Direct proportion
 - b. Inverse proportion
 - c. Neither direct nor inverse proportion
 - d. Compound proportion
- 19. 14% of 200 + 28 % of 200 is?
 - a. 42
 - b. 84
 - c. 46
 - d. 48
- 20. 210 is 7% of:
 - a. 1000
 - b. 2000
 - c. **3000**
 - d. 4000.
- 21. $\frac{3}{8}$ in percentage form is
 - a. 45 %
 - b. 37.5%
 - c. 0.375
 - d. 35%.
 - u. 3370.
- 22. If Cost Price is greater than Selling Price then it has a
 - a. Neither profit or loss
 - b. Profit
 - c. Loss
 - d. Discount price

	23. Profit or loss is always calculated on
	a. Selling Price
	b. Cost Price
	c. Both Cost Price and Selling Price
	d. Invoice Price.
	24. The ratio of 30 minutes of 1.5 hours is
	a. 1:3
	b. 3:1
	c. 2:4
	d. 4:2
CHAPTER 3	25. When the interest in computed only on principle for the entire period, it is called.
INTEREST &	a. Compound Interest
ANNUITIES:	b. Annuity
	c. Simple Interest.
	d. Interest Rate
	26. The interest for each time period is added to the period before interest is
	computed for the next time period is called:
	a. Compound interest
	b. Simple interest
	c. Interest rate.
	d. Annuity
	27. When interest is added to the principal more than once a year it is called
	a. Multiple compounding
	b. Compound amount
	c. Rate of interest
	d. Annuity.
	28. Compound amount is called:
	a. Discount value
	b. Future value
	c. Present Value
	d. Face value.
	29. The principal amount is also called;
	a. Price value
	b. Present value
	c. Compound amount
	d. Accumulated value
	30. A fixed amount of money that is paid or received at equal intervals of
	time is called
	a. Multiple compounding
	b. Compound amount
	c. Annuity
	d. Proceed

- a. Future value of annuity
- b. Present value of annuity
- c. Past value of annuity
- d. immediate annuity.
- 32. Amount interest =?
 - a. Price
 - b. Cost
 - c. Principal
 - d. Selling.
- 33. If interest is computed on principal amount for the entire period it is called.
 - a. Annuity
 - b. Compound
 - c. Simple interest
 - d. Effective rate of interest
- 34. Under annuity due, payment is due at the?
 - a. Beginning of the time.
 - b. End of the time.
 - c. At the middle of the time.
 - d. Each.
- 35. What is the simple interest for Rs 10,000 for 2 years at 10% interest per annum.
 - a. 200.
 - b. 3000.
 - c. 4000.
 - d. 2000.
- 36. In calculation of interest 'n' stands for

37. The place determined by the x and y axes is called

- a. Rate of interest
- b. Amount
- c. Principal
- d. No. of years

a. Horizontal planeb. Vertical plane

CHAPTER 4

FUNCTIONS AND THEIR GRAPHS.

- c. Co ordinate planed. Aero plane
- u. Aero plane
- 38. The slope of the horizontal line is
 - a. **0**
 - b. 1
 - c. 2
 - d. 3.

	20. Create of linear equation is also called graph of a
	 Graph of linear equation Is also called graph of a; a. Parabola
	b. Slope
	c. Straight line
	d. Distance
	d. Distance
	40. The points where parabola cuts $x - axis$ is called
	a. Coordinates
	b. Roots
	c. Points
	d. Directions
	41. The turning point of the parabola is called
	a. Intercept
	b. Root
	c. Vertex
114	d. Slope
1/2	42. The quadrant in which both x and y are negative is called
	a. Quadrant I
	b. Quadrant II
	c. Quadrant III
	d. Quadrant IV
11 10 10	
	43. The plane formed by. r - axis and y-axis is called
	a. Vertical plane
	b. Co-ordinate plane
	c. Horizontal plane
and the second se	d. Both a & b
1.1.1	44. A function of the form $f(x) = ax^2 + bx + c$ is called
	a. Cubic function
	b. Quadratic function
	c. Linear function
	d. Simultaneous function
CHAPTER 5	45. The equation 2x + 3 = 8 is called
	a. Linear equation
LINEAR &	b. Quadratic equation
QUADRATIC	c. Incomplete equation
EQUATION.	d. Cubic equation
	46. 2x + 5 = 13, then x =
	a. 2
	b. 5
	c. 4
	d. 13
	47. A quadratic equation has always roots.
	a. One
	b. Two
	c. Three
	d. Four

	48. A second-degree equation is also called
	a. Cubic equation
	b. Quadratic equation
	c. Linear equation
	d. Incomplete equation
	49. For the quadratic equation $2x^2 - 4x + 3 = 0$, the value of a =?
	a. 4
	b. 3
	c. 2
	d. 4
	50. For the quadratic equation $x^2 - 5x + 6 = 0$, the value of b =?
	a. 5
	b. 1
	c5
	d. 6
	51. For the quadratic equation $2x^2 - x + 15 = 0$, the value of c =?
	a15
	b1
	c. 15
	d. 2
	52. In linear equation the highest power of the variable is;
	a. One
	b. Two
	c. Three
	d. Four
CHAPTER 6	53. The number system we use in our daily life is based on
BINARY	a. Seven digits
NUMBERS	b. Eight digits
	c. Two digits
	d. Ten digits
	54. Decimal number system is also called
	a. Binary system
	b. Base two number system
	c. Denary system
	d. Natural system
	55. The binary number system has only;
	a. One digit
	b. Two digits
	c. Three digits
	d. Four digits
	56. The binary equivalent of a decimal number 9 is
	a. 1101
	b. 1001
	c. 1111
	d. 1011

	57. In a binary there are two digits 0 and 1. How many digits are in a decimal
	a. 5
	b. 8
	c. 9
	d. 10
	58. A number system is based on two basic concepts. They are digits and
	a. Positions
	b. Notations
	c. Decimals
	d. Binary
	59. Binary system is also called;
	a. Base – zero system
	b. Base – one system
	c. Base – two system
1142	d. Base – three system
	60. The binary equivalent of 0.4375 is:
	a. 0.01
	b. 0.10
	c. 0.101
	d. 0.0111
	61. The binary equivalent of decimal number 17 is:
	a. 10010
1.	b. 10001
	c. 100010
	d. 101010
	62. A number system is based on two basic concepts. They are Digits and?
	a. Positions
	b. Notations
	c. Decimals
	d. Fractions
	63. The number system with 10 digits is called;
	a. Decimal
	b. Positions
	c. Notations
	d. Binary
CHAPTER 7	64. If a matrix has 3 rows and 2 columns, then its dimension will be
	a. 2 x 3
MATRICES &	b. 3+2
DETERMINANTS.	c. 3 × 2 d. 32.
	65. A matrix which does not have an inverse, is called
	a. Transpose
	b. Row matrix
	c. Singular
	d. Unit matrix
L	

66. Cramer's Rule is also known as?

- a. Inverse Matrix Method
- b. Matrix Method
- c. Determinant Method
- d. Inverse Method
- 67. The idea of matrices was introduced by Arthur Caylet in
 - a. 18th century
 - b. 19th century
 - c. 20th century
 - d. 21st century
- 68. The methods to solve a pair of simultaneous linear equations are;
 - a. 3
 - b. **2**
 - c. 4
 - d. 5
- 69. The law which does not hold in multiplication of matrices is known as
 - a. Distributive law
 - b. Inverse law
 - c. Associative law
 - d. Commutative law
- 70. A rectangular array of numbers arranged in rows and columns is called.
 - a. Arranged numbers
 - b. Determinant
 - c. Matrix
 - d. Transpose.
- 71. The matrix $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$ is called.
 - a. Complete matrix
 - b. Identity matrix
 - c. Null matrix
 - d. Determinant.
- 72. The matrix $A = \begin{bmatrix} 2 & 3 & 5 \end{bmatrix}$ is called.
 - a. Null matrix
 - b. Square matrix
 - c. Rectangular matrix
 - d. Row matrix.
- 73. The matrix $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is called.
 - a. Null matrix
 - b. Zero matrix
 - c. Identity matrix
 - d. Determinant

74. A transpose matrix is denoted by?

- a. A
- b. I
- c. A⁻¹ d. A^t
- 75. A × A⁻¹ =?
 - a. Null matrix
 - b. Square matrix
 - c. Identity matrix
 - d. Singular matrix
- 76. A matrix of order 3 × 3 is called
 - a. Square matrix
 - b. Singular matrix
 - c. Cubic matrix
 - d. Matrix of order 9
- 77. An identity matrix is denoted by?
 - a. A
 - b. I
 - c. A⁻¹
 - d. A^t
- 78. An identity matrix is also called?
 - a. Square matrix
 - b. Singular matrix
 - c. Unit matrix
 - d. Null matrix

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