| Paper Code INTERMEDI | | 2023 (1 st -A) IATE PART-I (11 th Class) | | Roll No: MT | Roll No: MTN-11-23 | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------|--|
| BUSINESS MATHEMATICS (COMMERCE GROUP) PAPER-I | | | | | | | |
| TIM | E ALLOWED | : 15 Minutes | ODOLOZZ | | | AXIMUM 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. | | | | | | | |
| fill the bubbles. Cutting or filling t | | | | | | | |
| S.# | | TIONS | A | | $(110)_2$ | (1000) ₂ | |
| 1 | $(101)_2 + (11)_2$ is equal to: | | (101) ₂ | $(111)_2$ | (110)2 | (1000)2 | |
| 2 | If $A = \begin{bmatrix} 1 & 2 & 4 \\ 3 & 1 & 4 \end{bmatrix}$ | then order | 3 × 2 | 2 × 3 | 3 × 3 | 2 × 2 | |
| | of A' will be: | | Singular | Null matri | ix Non-singular | Row matrix | |
| 3 | Inverse of the matrix will be possible if the matrix is: | | Singular | | | | |
| 4 | The missing term x in the proportion $x:5::15:25$ is: | | 3 | 5 | 15 | 25 | |
| 5 | What percent Rs.50 is of Rs.250? | | 5% | 50% | 10% | 20% | |
| 6 | In which case more interest is earned if interest rate is compounded? | | Annually | Monthly | | Semi- annually | |
| 7 | A cubic function is of degree: | | 2 | 1 | 3 | 0 | |
| 8 | The graph of a linear function is: | | Parabola | Straight li | | Curve | |
| 9 | The quadratic formula for $ax^2 + bx + c = 0$ is: | | $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ | $\frac{-b \pm \sqrt{c^2 - a^2}}{2a}$ | $\frac{-b \pm \sqrt{b^2 - 4bc}}{2a}$ | $\frac{-b\pm(b^2-4ac)^2}{2a}$ | |
| 10 | A binary number (101) ₂ , in decimal number system is equal to: | | 4 | 5 | 6 | 3 | |

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