

SEAL

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Invigilator's signature

Question Booklet No.

300363

R/S/I/E EXAM.

2021

ELEMENTARY MATHEMATICS

Time : 2 Hours

Maximum Marks : 100

ROLL NO.

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NB : CANDIDATES ARE ALLOWED TO TAKE THIS QUESTION BOOKLET ONLY AFTER COMPLETION OF 2 (TWO) HOURS EXAMINATION TIME

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R/S/I/E EXAM. 2021/137

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1. Quadrillion has _____ zeroes.

- (A) 4
- (B) 10
- (C) 15
- (D) 20

2. If $a > b$ and $b > a$, then we conclude that

- (A) $a \sim b$
- (B) $a = b$
- (C) $a \neq b$
- (D) Cannot be evaluated

3. What can be said regarding a line if its slope is negative?

- (A) θ is acute angle
- (B) θ is obtuse angle
- (C) Either the line is x -axis or it is parallel to the x -axis
- (D) $\theta = 90^\circ$

4. y -intercept of the line $4x - 3y + 15 = 0$, is

- (A) $-\frac{15}{4}$
- (B) $\frac{15}{4}$
- (C) 5
- (D) -5

5. $0.0058 + 1000 = ?$

- (A) 0.000058
- (B) 0.0000058
- (C) 0.58
- (D) 0.00058

6. There are 50 boys and 25 girls in a class. The ratio of the number of boys to the total number of students is

- (A) 1 : 2
- (B) 2 : 1
- (C) 2 : 3
- (D) 3 : 2

7. A car moves with a speed of 216 km/hr. Its speed in meters per second is

- (A) 21.6
- (B) 24
- (C) 60
- (D) 65

8. By selling a book for ₹285, a shopkeeper gains 14%. If the profit is reduced to 8%, the selling price will be

- (A) ₹268
- (B) ₹270
- (C) ₹272
- (D) ₹300