

**FORM I  
MATHEMATICS**

**Revision I****Section A** : Show all working steps.

- Convert  $123_{(10)}$  into binary number.
- Convert  $1110001_{(2)}$  into denary number.
- Simplify  $(2x)^2 \times 3x$ .
- Simplify  $(5xy)^2 \div [(2x)(2y)]$ .
- Solve the equation  $\frac{3}{4}x + 5 = 11$ .
- Express  $36\frac{1}{6}\%$  as decimal.
- Increase 58 by 28%.
- Decrease 250 by 3.8%.
- Find the cost price, if selling price = \$220 and profit percentage 15%.

**Section B** : Show all working steps.

- Calculate  $15 \times 6 - 40 \div 8 + [5 \times 8 - (3 \times 5 - 5)]$ .
- Calculate  $\frac{4\frac{2}{3} \times 2\frac{1}{2} + 2\frac{1}{2}}{19\frac{2}{7} - 5\frac{2}{5} \times 3\frac{3}{14}}$ .

- By substitution, find the value of the unknown :

$$\text{If } n = 3, E = 1.5, R = 7, r = 2, I = ?$$

$$I = \frac{nE}{R + nr}$$

- Find the solution of  $\frac{6}{5} \times (n - 3) + 5 = 11$ .
- Solve:  $\frac{22 - 4x}{5} + 2 = 4$ .
- Convert the denary number 223 into binary number.
- Convert the binary number  $1100110_{(2)}$  into denary number.
- Evaluate:  $3\frac{3}{5} + 1\frac{1}{55} \div 3\frac{3}{11}$ .
- Twice a number increased by 5 is equal to 23. Find the number.
- \$3200 is divided among three men A, B, C. If B has three times as much as A and C has four times as much as A, how much does each receive?
- The number of workers in factory A is 60 less than 4 times the number in factory B. If factory A has 480 workers, what is the number of workers in B?

\*\*\* The End of Revision I \*\*\*

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