ICSE SEMESTER 1 EXAMINATION – ANSWER KEY

MATHEMATICS

Question 1

(b)   2 [1]

Question 2

(c) $\{x : x \geq -2, x \in R\}$ [1]

Question 3

(b)   the number of columns of A is equal to the number of rows of B. [1]

Question 4

(c)   115 [1]

Question 5

(c)   ₹ 896 [1]

Question 6

(a) $x^2 - 5x + 6 = 0$ [1]

Question 7

(a)   3 [1]

Question 8

(d)   ₹ 1500 [1]

Question 9

(b)   SAS [1]

Question 10

(c) $\begin{bmatrix} 5 & 10 \\ 3 & -4 \end{bmatrix}$ [1]

Question 11

(d) -11 [1]

Question 12

(a)   5 [1]

Question 13

(b) $\dfrac{PQ}{RT} = \dfrac{OP}{OR} = \dfrac{OQ}{OT}$ [1]

Question 14

(d) $\dfrac{c+d}{c-d}$ [1]
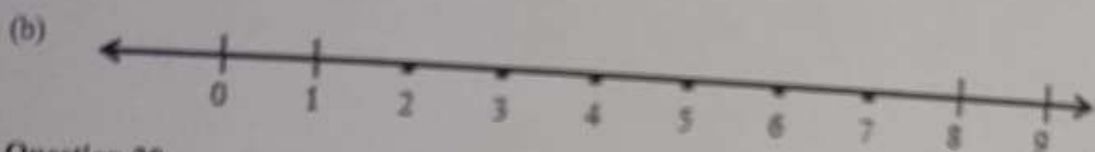
Question 15

(c) 4, −2, −8, −14

Question 16

(b) 7.317

Question 17

(d) $(x + 2)(x + 3)(x + 1)$

Question 18

(c) 420

Question 19

(b)

Question 20

(a) $z : x$

Question 21

(a) ₹ 5040

Question 22

(d) $\begin{bmatrix} 5 & 23 \\ -1 & 17 \end{bmatrix}$

Question 23

(i)   (b) $\triangle COD, \triangle AOB$

(ii) (a) $\dfrac{CD}{AB} = \dfrac{OC}{OA} = \dfrac{OD}{OB}$

(iii) (b) $1 : 2$

(iv) (c) $x = 6.5 , y = 7$

Question 24

(i)   (c) $\dfrac{72}{x}$ litres

(ii) (b) $\dfrac{72}{x + 3}$ litres

(iii) (c) $\dfrac{72}{x} - \dfrac{72}{x + 3} = 4$

(iv) (b) 12 litres

[2]

[2]

[2]

[2]

[2]

[2]

[2]

[1]

[1]

[1]

[1]

[1]

[1]

[1]

[1]

Question 25

(i)   (c)   ₹ 1000   [1]

(ii) (b)   ₹ 24000   [1]

(iii) (c)   ₹ 26000   [1]

(iv) (c)   12   [1]