



GRADE: X

## DISHA – A Life School II-REVISION EXAMINATION

TIME : 2  $\frac{1}{2}$  hr

MARKS: 80

MATHEMATICS

DATE : DEC'22

*Answer to this paper must be written on the paper provided separately.*

*You will not be allowed to write during first 15 minutes. This time is to be spent in reading the question paper.*

*The given at the head of this paper is time allowed for writing the answers.*

*Attempt all questions form section A and any four questions from Section B.*

*All working including rough work must be clearly shown, and must be done on the same sheet as the rest of the answer.*

*Omission of essential working will result in loss of marks.*

*The indented marks for questions or parts question are given in brackets [ ].*

### Section-A [ 40 marks]

#### Answer the following questions.

[15 × 1 = 15 Marks]

#### QUESTION:1

Choose the correct answer:

- a) A refrigerator was sold for Rs. 15,000 under intrastate transaction from state Tamil Nadu to State Kerala and the GST rate is 18 %. [1]
  - i) Rs.1400                      ii) Rs.1350                      iii) 1300                      v) 2700
- b) The discriminant of quadratic equation  $x^2-2x+1 = 0$  [1]
  - i) =0                      ii) > 0                      iii) < 0                      iv) 1
- c) The value of m so that (x+6) is a factor of  $x^3+5x^2-4x+m$ , is [1]
  - i) 7                      ii) -3                      iii) 6                      iv) 12
- d) The order of the matrix  $\begin{bmatrix} 1 & 3 \\ 4 & 6 \\ -1 & -3 \end{bmatrix}$  is [1]
  - i)  $3 \times 2$                       ii)  $2 \times 3$                       iii)  $4 \times 1$                       iv)  $2 \times 2$
- e) The reflection of the point P(-1,7) in the x-axis is [1]
  - i) (1,7)                      ii) (-1,7)                      iii) (7,-1)                      iv) (-1,-)7
- f) If in triangle ABC and DEF,  $\frac{AB}{DE} = \frac{BC}{FD}$  then they will be similar when [1]
  - i)  $\angle B = \angle E$                       ii)  $\angle A = \angle E$                       iii)  $\angle B = \angle D$                       iv)  $\angle A = \angle F$
- g) If the CSA of a cylinder of height 14cm is 88sq cm, then the diameter of the cylinder is [1]
  - i) 2cm                      ii) 4cm                      iii) 1cm                      iv) 3cm
- h) If  $4x-2 \geq 8-x$ ,  $x \in \mathbb{N}$ , then the solution set is [1]
  - i) {2,3,4,5,...}                      ii) {1,2,3,4,...}                      iii) {0,1,2,3,...}                      iv) {2,3,4,5,6}
- i) The probability of getting a sum of 13, when a pair of dice is rolled is: [1]
  - i) 0                      ii)  $\frac{1}{12}$                       iii)  $\frac{1}{13}$                       iv)  $\frac{1}{11}$
- j) The order of matrix P is  $2 \times 1$  and that of Q is also  $2 \times 1$ . The order of the matrix  $2P \cdot Q$  is: [1]
  - i)  $2 \times 2$                       ii)  $4 \times 1$                       iii)  $2 \times 1$                       iv)  $3 \times 2$
- k) The coordinates of a point which divides a line segment joining points (-3,4) and (7,-6) in the ratio 1:2 internally are: [1]
  - i) (-1,3)                      ii) (1,3)                      iii)  $\frac{1}{3}, \frac{2}{3}$                       iv)  $\frac{1}{3}, -\frac{2}{3}$
- l) In the given figure ABCD is a cyclic trapezium such that  $AD \parallel BC$  if  $\angle ABC = 75^\circ$ , then  $\angle BCD$  is: [1]
  - i)  $35^\circ$                       ii)  $55^\circ$                       iii)  $65^\circ$                       iv)  $75^\circ$

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**F Rizvi**



**Maths Paper1 Grade11 2014 Mindset Learn:**

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