

SECTION – A

Question numbers 1 to 6 carry 1 mark each.

Question 2

- 2.1** A bag contains 5 red balls and some blue balls. If the probability of drawing a blue ball from the bag is three times that of drawing a red ball, find the number of blue balls in the bag.
- 2.2** The 5th and 15th terms of an A.P. are 13 and -17 respectively. Find the sum of the first 21 terms of the A.P.
- 2.3** Using Euclid's Division Algorithm, find the HCF of 225 and 867.
- 2.4** If the point $(0, 2)$ is equidistant from the points $(3, 4)$ and $(4, k)$, find the value of k .
- 2.5** Find the value of a for which the pair of linear equations $4x + ay = 14$ and $2x + 3y = 7$ has infinitely many solutions.
- 2.6** A card is drawn at random from a well-shuffled pack of 52 playing cards. Find the probability of getting:
- (a) a red king
 - (b) a queen or a jack