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## 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 5<sup>th</sup> and 15<sup>th</sup> 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