















46. The distance between A and C is [1]
- i.  $\sqrt{5}$  units
  - ii.  $4\sqrt{5}$  units
  - iii.  $3\sqrt{5}$  units
  - iv. none of the above
- a) Option (iv) b) Option (i)  
c) Option (iii) d) Option (ii)
47. If an invigilator at point I, lying on the straight line joining B and C such that it divides the distance between them in the ratio of 1 : 2. Then coordinates of I are [1]
- a)  $(\frac{22}{3}, \frac{11}{3})$  b) (6, 1)  
c)  $(\frac{23}{3}, \frac{13}{3})$  d) (9, 1)
48. The mid-point of the line segment joining A and C is [1]
- a)  $(\frac{11}{2}, 0)$  b) none of the above  
c) (6, 1) d) (1, 6)
49. The ratio in which B divides the line segment joining A and C is [1]
- a) 3 : 1 b) none of these  
c) 2 : 1 d) 1 : 2
50. The points A, B and C lie on [1]
- a) a straight line b) a scalene triangle  
c) an equilateral triangle d) an isosceles triangle