

# Answer

## Question 1

- (i) (a) (4,3)
- (ii) (b)  $45^0$
- (iii) (b)  $\frac{1}{3} \pi r^2 h$
- (iv) (b) (-2, 3)
- (v) (c)  $\frac{1}{3} \pi r^2 h$  cubic units
- (vi) (c) 20 – 30
- (vii) (d) 14
- (viii) (a) 12 cm
- (ix) (d) 1
- (x) (b)  $\frac{4}{9}$

## Question 2

- (i)  $D(-2,0)$
- (ii) (a)  $\frac{1}{6}$  (b)  $\frac{1}{6}$
- (iii) 160 m.
- (iv) (a)  $50^0$  (b)  $75^0$  (c)  $80^0$

## Question 3

- (i) 2.5 cm
- (ii) 11.5
- (iii)
- (iv) Median = 34 marks

## Question 4

- (i)  $y = -2x + 5$
- (ii) (a) 39 kg (b) 39 kg
- (iii) 36 cm
- (iv) (a) (-2, -4) (b) (-2, 4) (c) 16 sq. units

## Question 5

- (i)
- (ii) 30 cm
- (iii) (a) 1 (b)  $x - y - 2 = 0$  (c) Q(0, -2)
- (iv) Mode = 82.5

## Question 6

- (i) (a)  $\frac{1}{20}$  (b) 0
- (ii)  $(\frac{5}{3}, 1)$
- (iii) 80 m
- (iv) 143