Class 10 Maths

Chapter – 6 Triangles

Extra Questions – 1

(1) A man goes 15m west and then 8m north. Find distance from the starting point.

(a) 17 m

(b) 18 m

(c) 16 m

(d) 7 m

(2) The side of square whose diagonal is 16 cm is –

(a) 16 cm

(b) $8\sqrt{2}$ cm

(c) $5\sqrt{2}$ cm

(d) None of these

(3) If in two triangles ABC and PQR, $\frac{AB}{QR} = \frac{BC}{PR} = \frac{CA}{PQ}$

(a) $\Delta PQR \sim \Delta CAB$

(b) $\Delta PQR \sim \Delta ABC$

(c) $\Delta CBA \sim \Delta PQR$

(d) $\Delta BCA \sim \Delta PQR$

(4) D, E and F are the mid-points of the sides AB, BC and CA respectively of ΔABC , then $\frac{ar(\Delta DEF)}{ar(\Delta ABC)}$ is

(a) 1:4

(b) 4:1

(c) 1:2

(d) None of these

(5) In a triangle, DE||BC and AD = 1 m. the ratio of the area of ΔABC to the area of ΔABC to the area of ΔADE is –

(a) 9:1

(b) 1:9

(c) 3:1

(d) None of these

(6) Length of an altitude of an equilateral triangle of side '2a' cm is –

(a) 3a cm

(b) $\sqrt{3}$ a cm

(c) $\sqrt{\frac{3}{2}}$a cm

(d) $2\sqrt{3}$ a cm

(7) In an isosceles triangle ABC, if AC=BC and $AB^2 = 2AC^2$, then <C =

(a) 45°

(b) 60°

(c) 90°

(d) 30°

(8) If $\triangle ABC \sim \triangle RPQ$, AB = 3 cm, BC = 5 cm, AC = 6 cm, RP = 6 cm and PQ = 10, then find QR.

(a) 10 cm (b) 12 cm (c) 14 cm (d) 8 cm

(9) Sides of two similar triangles are in the ratio 4:9. Areas of these triangles are in the ratio :

(a) 2:3

(b) 4:9

(c) 81:16

(d) 16:81

(10) Which figures are similar –

(a) Two rectangles

(b) Two Triangles

(c) Two circles

(d) Two trapezium