

IX - Mathematics Assignment No.-06 - Heron's Formula - Area.Multiple choice Questions (M.C.Q.) (Pg 1-5)

Choose the correct answer from the four given answers.

Q1. The area of a Δ of sides 3cm, 4cm, 5cm is

- (i) 6 cm^2
- (ii) 10 cm^2
- (iii) $\frac{15}{2} \text{ cm}^2$
- (iv) 8 cm^2

Q2. The area of an equilateral Δ of side $4\sqrt{3} \text{ cm}$ is

- (i) 4 cm^2
- (ii) 3 cm^2
- (iii) $\sqrt{3} \text{ cm}^2$
- (iv) $\frac{\sqrt{3}}{4} \text{ cm}^2$

Q3. The area of an isosceles Δ of equal side 4cm and base 6cm is

- (i) 5 cm^2
- (ii) 10 cm^2
- (iii) $3\sqrt{7} \text{ cm}^2$
- (iv) 25 cm^2

Q4. In a right angled Δ of sides 5cm, 12cm and 13cm, The length of perpendicular on hypotenuse from the opposite vertex is

- (i) $\frac{60}{17} \text{ cm}$
- (ii) $\frac{60}{15} \text{ cm}$
- (iii) $\frac{60}{12} \text{ cm}$
- (iv) $\frac{60}{13} \text{ cm}$

Q5. If the diagonal of a square is $100\sqrt{2} \text{ cm}$ then the area of square in hectare is

- (i) 1 hectare
- (ii) 10 hectare
- (iii) 100 hectare
- (iv) 100×100 hectare

Cont Pg-2

Pg-2

- (Q6) Two adjacent sides of a rectangle are 4cm and 3cm. The length of the diagonal is
 (i) 4cm (ii) 5cm (iii) 6cm (iv) 7cm
- (Q7) Two parallel sides of a trapezium are 8cm and 6cm and distance between them is 5cm. Its area is
 (i) 40 cm^2 (ii) 45 cm^2 (iii) 35 cm^2 (iv) 65 cm^2
- (Q8) Length of two diagonals of a rhombus are 6cm and 8cm. The side of a rhombus is
 (i) 8cm (ii) 7cm (iii) 6cm (iv) 5cm
- (Q9) The area of a right-angled \triangle with hypotenuse 25cm and base 7cm is
 (i) 84 cm^2 (ii) 64 cm^2 (iii) 107 cm^2 (iv) 175 cm^2
- (Q10) The perimeter of an isosceles \triangle (right-angled) having an area 20 cm^2 is
 (i) 58.2 cm (ii) 68.2 cm (iii) 100cm (iv) 20cm

Cont-Pg-3

Q11. The area of a right-angled \triangle Pg-3 if the radius of its circumcircle is 5cm and the altitude drawn to the hypotenuse is 4cm. is

- (i) 10 cm^2
- (ii) 15 cm^2
- (iii) 20 cm^2
- (iv) 25 cm^2

(Q12) The area of an isosceles \triangle is 60 cm^2 and each equal side is 13cm. The base of the \triangle is

- (i) 6cm
- (ii) 12cm
- (iii) 18cm
- (iv) 24cm

(Q13) Area of a rectangular plot is 180 m^2 . The length is 18m. The perimeter of rectangle is

- (i) 56m
- (ii) 50m
- (iii) 44m
- (iv) 38m.

(Q14) A hall $20\text{ m} \times 16\text{ m}$. The area of four walls is equal to the area of floor and ceiling together. The height of the hall is

- (i) 7.90m
- (ii) 8.90m
- (iii) 8.89m
- (iv) 9.89m.

ContPg-4

(Q15) The area of floor of a length Pg-4 60m in 960 m^2 . Carpets of size $6\text{ m} \times 4\text{ m}$ are available. Find how many carpets are required to cover the hall.

- (i) 60
- (ii) 60
- (iii) 50
- (iv) 70

(Q16) The base of a parallelogram whose area is 45 cm^2 and height 4.5 cm is.

- (i) 100 cm
- (ii) 10 cm
- (iii) 10 cm
- (iv) 5 cm

(Q17) The perimeter of a rhombus \overline{ABCD} is 100 m . Diagonal $AC = 14\text{ m}$. Find diagonal BD .

- (i) 48 m
- (ii) 40 m
- (iii) 36 m
- (iv) 24 m

(Q18) Find the area of a quadrilateral \overline{ABCD} in which AC and BD intersect each other at right angles and are of length 15 cm and 12 cm respectively.

- (i) 88 cm^2
- (ii) 90 cm^2
- (iii) 92 cm^2
- (iv) 94 cm^2

ContPg-5

(Q19) The diagonals of a rhombus are 15cm and 36cm. The perimeter of rhombus is

- (i) 58cm
- (ii) 68cm
- (iii) 78 cm
- (iv) 88cm

(Q20) The diagonal of a quadrilateral whose area is 495 m^2 and whose offsets are 19m and 11m is

- (i) 63m
- (ii) 53m
- (iii) 43m
- (iv) 33m

ANSWERS.

(Q1) (i)	(Q6) (ii)	(Q11) (iii)	(Q16) (IV)
(Q2) (ii)	(Q7) (iii)	(Q14) (IV)	(Q17) (i)
(Q3) (iii)	(Q8) (IV)	(Q13) (i)	(Q18) (ii)
(Q4) (IV)	(Q9) (i)	(Q14) (iii)	(Q19) (iii)
(Q5) (i)	(Q10) (ii)	(Q15) (ii)	(Q20) (iv)