9/10

Holiday - Homework

Section - A

(1) Decimal representation of rational no. cannot be?
(d) Non terminating non repeating

(2) Difference of a rational no. and an irrational no. is ?
(d) always irrational

(3) The no. obtained on rationalizing denominator of $\frac{1}{\sqrt{7}-2}$ is ?
(a) $\frac{\sqrt{7}+2}{3}$

(4) Value of $0.1\overline{34}$ is ?
(c) $\frac{133}{99}$

(5) Value of $0.6 + 0.\overline{7} + 0.4\overline{7}$ in p/q form is ?
(a) $\frac{167}{90}$

(6) Value of x is ?
(b) 20°

(7) If interior angles on same side of transversal are in ratio 2:3, then greater angle is ?
(b) 108°

(8) In fig. AB || CD then value of x is ?
(b) 30°

(9) Angle of triangle are in ratio 2:4:3. The smallest angle is ?
(b) 40°

(10) One angle of triangle is 65°. Remaining two angles, if their difference is 25°, are ?
(a) 70° and 45°

(11) An exterior angle of triangle is 108° and interior opp. angles are in ratio 4:5. The angles are ?

(a) 48°, 60°, 72°

(12) In ΔABC, internal bisectors of $\angle B$ and $\angle C$ meet at P and external bisectors of $\angle B$ and $\angle C$ meet at Q, then value of $\angle BPC + \angle BQC$ is ?

(a) 90°

(13) In $\Delta ABC \cong \Delta PQR$ and ΔABC is not congruent to ΔRPQ, then which is not true ?

(a) $BC = PQ$

(14) In triangles ABC and PQR, if $\angle A = \angle R$, $\angle B = \angle P$, $AB = RP$ then which congruency criteria can be used ?

(b) ASA

(15) In triangles ABC and PQR, $AB = QP$, $\angle B = \angle P$, $BC = QR$. The two triangles will congruent be axiom ?

(a) SAS

(16) In ΔABC, the altitude AD, BE and CF are equal. Then ΔABC is ?

(d) an equilateral triangle

(17) If ΔABC is isosceles triangle, then which is true?

(d) All the altitudes are equal

(18) In ΔABC, $AB = BC$ and $\angle B = 80°$. Then $\angle A$ is ?

(c) 50°

(19) Ordinate of all points on x-axis is ?

(a) 0

(20) Points in which abscissa and ordinate have different sign will lie in ?

(d) II and IV quadrant

Section - B

(21) Point (-3, 5) lies in ?

(b) second quadrant

(22) Point (-10, 0) lies in ?

(a) negative direction of x-axis

(23) The point whose ordinate is 4 and lies on y-axis is ?

(b) (0, 4)

(24) If perpendicular distance of point P from x-axis is 15 units and foot of perpendicular lies on -ve direction of x-axis. Point P ?

(d) y-coordinate = 5 or -5

(25) If two sides of right angle triangle are 5 cm and 12 cm, then third state is ?

(b) 13 cm

(26) An isosceles right angle Δ has area 8 cm^2. Length of hypotenuse is ?

(a) $\sqrt{32}$ cm

(27) Adjacent sides of parallelogram are 20 and 15 in length. Ratio of corresponding altitude is ?

(c) 3:4

(28) Sides of triangles are 56 cm, 60 cm, 52 cm. The area of triangle is ?

(a) 1344 cm^2

(29) Edges of triangular board are 6 cm, 8 cm, 10 cm. Cost of painting at rate of 9 paise per cm^2 is ?

(b) ₹ 2.16

(30) Sides of triangle are 35 cm, 54 cm, 61 cm respectively. Length of longest altitude ?

(c) $24\sqrt{5}$

31 (a) $a \neq 0, b \neq 0$

32 (c) infinitely many soln

33 (a) natural no

34 (a) 4

35 (d) 0.2

36 (b) $y = 0$

37 (b) 20-30

38 (a) 11-20

39 (c) 5-8

40 (d) raw data

Case-Study 1

41 $x - 3y = 0$ (ii)

42 (i) (4, 1)

43 (iii) ₹ 5

44 (iv) infinitely many

45 (iii) 2

Case-Study 2

46 (b) 9

47 (a) 180

48 (c) 185.5

49 (d) 28

50 (d) 31