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BENGALURU REGION
SUMMATIVE ASSESSMENT -II (MARCH 2014)

CLASS : VII **MARKING SCHEME** **SET -1**

Section A

1)0 2) 3 (3) AB= PQ (4) 10:1 (5)πd cm (6) 3 (7) scalene triangle (8) pyramid

Section B

9) Identifying the 3 congruent parts---- (1 ½) RHS congruence rule …… (1/2)

10) Drawing the number line ……(1)

Marking the points ……..(1)

11) 2+3=5

$\frac{2}{5}$ x 100 = 40 % -------- (1) $\frac{3}{5}$ x100 = 60% ---------- (1)

12) 1000 = (2x 2 x 2) x (5 x5 x 5) =2^3 x 5^3 (1+1)

13) (a) order- 4 ,angle of rotation- 9 (b) order- 6 , ,angle of rotation- 60 ……..(1+1)

14) $a^2 + ab + b^2$; a =3 , b = (-2)

Substitution ------ (1) , calculation & arriving at the answer =7 ---------- (1)

Section C

15) cost price = Rs 3,50, 000 selling price = Rs 3,70, 000

Profit = S.P - C.P ……($^1/_2$)

= 3,70,000 - 3, 50,000 = Rs 20000 ……($^1/_2$)

Profit % = $\frac{profit}{original\ price}$ x 100 ……($^1/_2$)

= $\frac{20000}{350000}$ x 100 ……($^1/_2$)

= $\frac{40}{7}$ =$5\frac{5}{7}$ % …….(1)

16) $(-2\frac{1}{3}) + 4\frac{3}{5} = (-\frac{7}{3}) + \frac{23}{5}$ ……..(1)

LCM =15 ----------(1)

$= \frac{-35+69}{15}$ $= \frac{34}{15}$ = ……(1)

17) $3x - y + 11 + (-y + 11) = 3x - 2y + 22$ …….(1)

$(3x - 2y + 22) - (3x - y - 11)$ ------ (1/2)

$= 3x - 2y + 22 - 3x + y + 11$ …(1/2)

$= -2y + 33$ ……(1)

18) $4(2x - 1) + 3x + 10 = 8x - 4 + 3x + 10 = 11x + 6$ …….(2)

11 x 2 + 6 = 22 +6 =28 …….(1)

19) $\frac{3 \times 7^2 \times 11^8}{21 \times 11^3} = \frac{3 \times 7^2 \times 11^8}{3 \times 7 \times 11^3}$ ……(1)

simplifying ……(1)

Ans= 7×11^5 …….(1)

20) (a) circle (b) square (c) triangle

21) (a)

(i) AB=AC (Given) (ii) BD= CD (D is the mid-point) (iii) AD=AD (common side) ($1\frac{1}{2}$)

(b) yes, ….(1/2) SSS congruence rule

22) diameter = 9.8 m , radius = 9.8/2 = 4.9 m …..(1)

Area of a circle $= \pi r^2$ …..(1)

$= \frac{22}{7} \times 4.9 \times 4.9 = 75.46\ m^2$ …(1)

Section D

23) money borrowed= Rs 9500

Time = 4years , rate of interest = 7% …….(1/2)

I = P X R X T / 100 …… (1)

$= \frac{9500 \times 7 \times 4}{100}$ = Rs 2660 ……(1) Amount = principal + interest ….(1)

A = 9500 + 2660= Rs 12160 ……..(1/2)

24)Area of square ABCD = SXS = 100X100 = 10000m^2

PQ= 100-(5+5) =100- 10 = 90 m

Area of square PQRS = Sx S = 90 x 90 = 8100 m^2

.; Area of the path =(10000 – 8100) m^2 =1900m^2

Cost of fencing 1 m^2=Rs 250/ 10

; . Cost of fencing 1900m^2= Rs 250 x 1900 = Rs 47,500

25)

Area of shaded portion = area of ABCD- area of (ΔEBC + ΔAEF) (1)
Area of ABCD= 180cm^2 (1)
Area of ΔAEF& = 30cm^2 ΔEBC=40cm^2 (1)
Area of shaded portion = 180- 70 = 110 cm^2

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(a) $\frac{5^6 \times 5^4}{5^7}$ (1)

$= \frac{5^{10}}{5^7} = 5^3$ (1)

(b) $\frac{2^8 \times a^5}{2^6 \times a^3}$ (1)

$= 2^2 \times a^2$ (1)