

Class: 6<sup>th</sup>

Subject: Maths

Name: \_\_\_\_\_

SUBJECTIVE TYPE

Time: 2.30Hours

Max Marks: 80

Roll No: \_\_\_\_\_

## SECTION I

Q#2. Attempt twenty five short answers out of thirty seven.

50

1. Simplify  $72xy \div 3xy$
2. Simplify  $6r + 4(S-r)$
3. Evaluate  $3c + 2d + 7$  when  $c = 5$ ,  $d = 2$
4. Evaluate  $\frac{r+2s}{t}$  when  $r = 4$ ,  $S = 3$ ,  $t = 2$
5. Evaluate when  $K = 4$ ,  $m = 3$ ,  $m(k-2)$ .
6. If  $P = 7$ ,  $q=5$ ,  $r = 3$  find the value of  $P^2 + q^2 - r^2$
7. Find the value of  $d = a^3bc$  if  $a = 3$ ,  $b = 11$ ,  $c = 2$ .
8. If  $x = 9$ ,  $y = 5$ , evaluate  $\sqrt{xy^2}$
9. If  $x = 9$ ,  $y = 5$ ,  $z = 16$ , evaluate  $\sqrt{\frac{x^2}{z^2}}$
10. If  $r = 16$ ,  $S = 9$ ,  $t = 4$ , evaluate  $\sqrt{rst}$
11. Find the value of letter in the following equation  $\frac{9}{10} w = 18$
12. Solve the equation  $4x - 7 = 29$
13. Solve the equation  $6p = 96$
14. Solve the equation  $\frac{z}{5} = 10$
15. Rida bought a box of chocolates for Rs. P and a packet of sweets for Rs.y. How much did he spend altogether ?
16. Simplify  $8r \times 3p$
17. Simplify  $54rs \div 9r$
18. Evaluate when  $r = 4$ ,  $S = 3$ ,  $t = 2$ ,  $S + t - r$
19. Simplify  $5a - (a+b)$
20. What is the value of  $3x + 4y - 6$  when  $x = 2\frac{1}{3}$  and  $y = 4\frac{3}{4}$  ?
21. Define circle ?
22. Define Diameter of circle ?
23. Define circumference of circle ?
24. Taking  $\pi = \frac{22}{7}$  find circumference when radius = 35cm.
25. Taking  $\pi = 3.14$  find circumference when diameter is 9cm.
26. The Diameter of circle is 30m what is its radius.
27. Taking  $\pi = \frac{22}{7}$  find circumference when radius = 70cm.
28. What is the formula to find area of semicircle ?
29. Taking  $\pi = 3.14$ , find the area of if radius is 10cm.
30. Taking  $\pi = \frac{22}{7}$  find circumference when radius is 14cm ?
31. Taking  $\pi = \frac{22}{7}$  find circumference when radius is 21cm ?.
32. What is formula to find volume of cuboids ?
33. What is formula to find number of cubes ?
34. Find the volume of cuboid in  $\text{cm}^3$ . Which is 16cm long, 12cm wide, 8cm high.
35. If the side of cube is 3cm find its volume ?
36. Find the height of cuboid whose length is 6cm, breadth is 5cm and volume is  $120 \text{ cm}^3$ .
37. What is the unit of measurement of volume ?

## SECTION II

Q#3. Attempt any three out of five questions.

(3 x 10 = 30)

a. Solve the equation.

(5)

$$\frac{3}{4}Z - 3 = 15$$

b. Solve the following equation.

(5)

$$3p + 7 = 2p + 10$$

Continued.....

- Q4. a) Remove the bracket then simplify (5)  
 $9(q+6) - 3(3+q)$   
 b) The area of triangle is given by the formula  $A = \frac{1}{2} b \times h$  where b is base and h is height.  
 Find the area when  $b = 6.5\text{cm}$ ,  $h = 4.2\text{ cm}$ . 15
- Q5 a) The diameter of long playing record is 30cm. Find its circumference ( $\pi = 3.14$ ) (5)  
 b. Taking  $\pi = 3.14$  Find radius of circle if its circumference is 6.28 cm. (5)
- Q6. a) Find the area of quadrant if the radius is 7cm ? (5)  
 b. Taking  $\pi = \frac{22}{7}$  find the area of the circle whose diameter is 7m ? (5)
- Q7. Find the value of cuboid in  $\text{m}^3$  if it is 3m 50cm long, 2m 40 cm wide, 1m 50cm high. (5)  
 b. Find the number of cubes if side of cube is 4cm and Internal measurements are 24cm by 12cm by 32cm. (5)
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**The End**