Ts-8M	Tenkasi District Commo Common First Mid Te		
Time: 1.30 Hrs. MATHS			Marks: 50
Part - I I. Choose the correct answer:			5×1=5
a) $\frac{-20}{12}, \frac{5}{3}$	b) $\frac{16}{-30}, \frac{-8}{15}$		d) $\frac{7}{-5}, \frac{-5}{7}$
0	b) $\frac{2}{3}$	c) $\frac{15}{32}$	d) $\frac{15}{16}$
a) $\frac{-1}{32}$	b) $\frac{1}{32}$	c) 32	d) -32
	s faces. b) 6 st chord of a circle is b) diameter	c) 8 c) radius	d) 12 d) centre
 II. Fill in the blar 6) The multip 7) The ones 8) The cube 9) A part of o 10) The cross III. State True or 11) 0 is the sn 12) 79570 is 13) The stand 14) The square 	hks: blicative inverse of -1 is digit in the square of 77 is root of 540×50 is circumference of a circle is section of a solid cylinder	s s called as r is	5×1=5
IV. Match the fol	lowing:	12	5×1=5
c) Area d) Circui	of a circle mference of a circle of the sector of a circle mference of a semi circle of a quadrant of a circle	$- \frac{1}{4}\pi r^{2}$ $- (\pi+2)r$ $- \pi r^{2}$ $- 2\pi r$ $- \frac{\theta^{0}}{360^{0}} \times \pi r^{2}$	
Part - II V. Answer ANY 5 questions: 5×2=:			
17) Find a rational number between $\frac{1}{3}$ and $\frac{5}{9}$.			
	9 -12		2

18) Subtract
$$\frac{9}{17}$$
 from $\frac{-12}{17}$.

19) Evaluate:
$$\frac{9}{132} \times \frac{-11}{3}$$

3×5=15

- 20) Find the value of $\sqrt{256}$.
- 21) Evaluate: (2⁻⁵×2⁷) ÷ 2⁷²
- 22) A spinner of radius 7.5 cm is divided into 6 equal sectors. Find the area of
- 23) Which 3-D shape do the following net represent? Draw it.



Part - III

VI. Answer ANY 3 questions:

24) Simplify: $\left(\frac{4}{3} - \left(\frac{-3}{2}\right)\right) + \left(\frac{-5}{3} \div \frac{30}{12}\right) + \left(\frac{-12}{9} \times \frac{-27}{16}\right)$

25) Verify the distributive property, $a \times (b+c) = (a \times b) + (a \times c)$ for the rational numbers $a = \frac{-1}{2}$, $b = \frac{2}{3}$, $c = \frac{-5}{6}$.

- 26) Evaluate: (i) $\sqrt[3]{\frac{9261}{8000}}$ (ii) $\sqrt[3]{\frac{1728}{729}}$
- 27) Four identical medals, each of diameter 7 cm are placed as shown in the



Find the area of the shaded region between the medals $\left(\pi = \frac{22}{7}\right)$.

28) Find the area of the combined figure given formed by joining a semicircle of diameter 6 cm with a triangle of base 6 cm and height 9 cm. (π = 3.14)



Part - IV

VII. Answer ANY 1 of the following:

1×5=5

29) a) Construct a Quadrilateral DEAR with, DE = 6 cm, EA = 5 cm, AR = 5.5 cm, RD = 5.2 cm. Also find its area.

(OR)

b) Construct a Trapezium CUTE with, $\overline{CU} || \overline{ET}$, $\overline{CU} = 7 \text{ cm}$, $\angle UCE = 80^{\circ}$, CE = 6 cm and TE = 5 cm. Also find its area.