FM

FIRST MID TERM TEST - 2023

CLASS :8

MATHS

TIME : 1.30 Hrs. MARKS :50

I Choose the best answer. 5 X 1 = 5

1. -5/4 is a rational number lies between .....
   a) 0 and -5/4 b) -1 and 0 c) -1 and -2 d) -4 and -5
2. The rational number ..... does not have a reciprocal a) 0 b) 1 c) -1 d) 5
3. $(-2)^{-3} \times (-2)^{-2}$ = ... a) -1/32 b) 1/32 c) 32 d) -32
4. The square of 43 ends with the digit ..... a) 9 b) 6 c) 4 d) 3
5. The number of measurements to draw a quadilateral is ..... .
   a) 3 b) 4 c) 5 d) 2

II Fill in the blanks. 5 X 1 = 5

6. The rational numbers -8/3 and 8/3 are equidistant from .....
7. The number of perfect square numbers between 300 and 500 is .....
8. The ones digit in the seine of 73 is ..... .
9. For $a \neq 0$, a^0 is .....
10. The longest chord of a circle is ..... .

III Match the following. 5 X 1 = 5

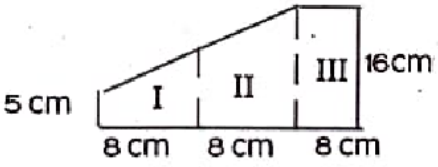
11.		-	$(\pi+2)r$
12.		-	πr^2
13.	Area of a circle	-	$2\pi r$
14.	Circumference of a circle	-	Cuboid
15.	Perimeter of a semi - circle	-	Square pyramid

IV Answer any 5 questions. 2 = 10

16. Find atleast two rational number between -3/4 and -2/5.
17. Subtract : -8/44 from -17/11.
18. Evaluate : $^{-5}/_{8} \times {}^{7}/_{3}$.
19. Find the value of $\sqrt{256}$.
20. Is 400 a perfect cube?
21. Find the value of : $\frac{(7)^{100}}{(-7)^{98}}$
22. The radius of a sector is 21cm and its central angle is 120°. Find the area of sector.

V Answer any four questions. 4 X 5 = 20

23. Compare $^{3}/_{4}$ and $^{5}/_{6}$.
24. Evaluate : $^{-21}/_{5} \div {}^{-7}/_{10}$.
25. Find x so that $(-7)^{x+2} \times (-7)^5 = (-7)^{10}$.
26. Find the cube root 27000.
27. A 3 fold invitation card is given with measures as in figure. Find its area.



28. A spinner of radius 7.5 cm is divided into 6 equal sectors. Find the area of each of the sector.

VI Answer any one. 1 X 5 = 5

29. Construct a quadilateral DEAR with DE = 6cm, EA=5cm, AR= 5.5cm, RD = 5.2cm and DA = 10 cm. Also find its area. ***(OR)***

    Construct a quadilateral PQRS, PQ=QR=3.5 cm RS = 5.2 cm, SP = 5.3 cm and $\angle Q = 120°$