

HSL

SECOND TERM EXAMINATION - 2022**7** - Std**MATHS**

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Time : 2.00 Hrs

Marks : 60

I Choose the correct answer.

10 X 1 = 10

- The place value of 3 in 85.073 is
a) tenths b) hundredths c) thousands d) thousandths
- $\frac{3}{5} = \dots\dots\dots$ a) 0.06 b) 0.006 c) 6 d) 0.6
- Circumference of a circle is a ways
a) three times of its diameter
b) more than three times of the diameter
c) Less than three times of its diameter
d) three times of its radius
- The formula of find area of the circular path is
a) $\pi (R^2 - r^2)$ sq.units b) πr^2 sq.units d) $2\pi r^2$ d) $(\pi r^2 + 2r)$ sq.units
- $a \times a \times a \times a \times a$ is equal to
a) a^5 n) $5a$ c) $5a$ d) $a + 5$
- The unit digit of $(32 \times 65)^0$ is
a) 2 b) 5 c) 0 d) 1
- If an exterior angle of a triangle is 115° and one of the interior opposite angles is 35° then the other two angles of the triangle are
a) $4^\circ, 60^\circ$ b) $65^\circ, 80^\circ$ c) $6^\circ, 70^\circ$ d) $115^\circ, 60^\circ$
- If two plane figures are congruent then they have
a) same size b) same shape
c) same angle d) same shape and same size
- Identify the correct relationship between x & y from the given table

x	1	2	3	4	-
y	4	8	12	16	-

a) $y = 4x$ b) $y = x + 4$ c) $y = 4$ d) $y = 4 \times 4$
- The elements along the sixth row of the Pascal triangle is
a) 1, 5, 10, 5, 1 b) 1, 5, 5, 1
c) 1, 5, 5, 10, 5, 5, 1 d) 1, 5, 10, 10, 5, 1

II Fill in the blanks.

5 x 1 = 5

- Between which two whole numbers 1.7 lie ?
- Area of a circle of radius 'n' units is
- The degree of $6x^7 - 7x^3 + 4$ is
- The angle of a triangle are in the ratio 2 : 3 : 4. Then the angles are.....
- is the sum of the elements of ninth row in the Pascal's triangle.

III Match the following.

16. The simplest form of 0.35
 17. Circumference of circle
 18. $6 \times 6 \times 6$
 19. The sum of three angles of a triangles
 20. Right angle

- 63
 - 90°
 - $7/20$
 - $2\pi r$
 - 180°

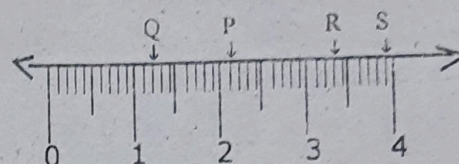
$5 \times 1 = 5$

IV Answer the following. (any 10).

21. Arrange in Ascending order : 2.35, 5.53, 5-32, 3.25
 22. Express 256m in km.

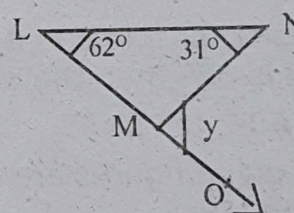
$10 \times 2 = 20$

23. Write decimal numbers represented by the points P, Q, R, S on the given number line.

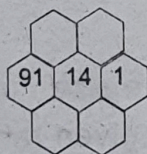


24. What is the circumference of the circular disc of radius 14cm?
 25. In a grass land, a sheep is tethered by a rope of length 4.9m. Find the maximum area that the sheep can graze.
 26. If the outer radius and inner radius of the circles are respectively 9cm and 6cm, find the width of the circular pathway.
 27. Find the value of 5^4 .
 28. Express 243 in exponential form.
 29. Simplify and express in exponential form : $2^0 \times 3^0 \times 4^0$
 30. Find the unit digit of expanded from : 11^{10} .
 31. If two angle of a triangle having measure 65° and 35° find the measure of third angle.

32. If $\triangle LMN$, LM is extended to O.
 It $\angle L = 62^\circ$ and $\angle N = 31^\circ$ find $\angle NMO$.
 33. Congruent triangle - Define.



34. Fill in the missing number in the hexagonal shapes.

**V Answer the following questions. (Any 4).**

$4 \times 3 = 12$

35. Write the given decimal number in the place value table : 48.001.
 36. If the circumference of a circle is 3m. Then calculate the radius and diameter.
 37. The floor of the circular swimming pool whose radius is 7m has to be cemented at the rate of Rs. 8 per m^2 . Find the total cost of cementing the floor.
 38. If $a = 3$, $b = 2$, then degree of the following expressions.
 i) $a^b + b^a$ ii) $(a + b)^b$
 39. Add and find the degree of the following expressions :
 $(9x + 3y)$ and $(10x - 9y)$.
 40. If the three angles of a triangle are in the ratio 3 : 5 : 4, then find them.
 41. Can row sum of elements in a Pascal's triangle form a pattern?

VI Answer the following.

$1 \times 8 = 8$

42. Draw a triangle xyz given that $xy = 6$ cm, $yz = 5.5$ cm and $zx = 5$ cm.
 43. Draw a triangle ABC given that $AB = 6$ cm, $AC = 5$ cm and $\angle A = 60^\circ$.