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Summative Assessment - December 2023

Standard - 7 MATHS

Timo	Allowed	1.2	00	Hours
Lime	Allower	1.4	.00	Hours

V7M

Maximum Marks:60

5×1=5 I. Choose the correct answer: 1. A Cricket pitch is about 264 cm wide, It is equal to ____ d) 0.0264 c) 0.264b) 2.64 a) 26.4 2. If the circumference of a circle is 82 π , then the value of 'r' is _ d) 20 cm b) 82 cm c) 21 cm a) 41 cm 3. The exponential form of 72 is _____ d) $2^3 \times 3^2$ c) $2^2 \times 3^3$ b) 2⁷ a) 7^{2} 4. The degree of $6x^7 - 7x^3 + 4$ is c) 6 a) 7 5. Which of the following rule is not sufficient to verify the congruency of two triangles? d) ASA rule c) SSA rule b) SAS rule a) SSS rule 5×1=5 II. Fill in the blanks: 6. $3 + \frac{4}{100} + \frac{9}{1000} =$ 7. The value of $(32 \times 65)^\circ$ is ___ 8. Degree of the constant term is _____ The elements along the sixth row of the Pascal's triangle is ______. 10. The exterior angle of a triangle is equal to the sum of the two _____ $5 \times 1 = 5$ III. Say True or False: 11. $3 + \frac{4}{100} + \frac{9}{1000} = 3.49$. 13. The degree of the expression – $4x^2yz$ is – 4, 14. 30° , 60° and 90° be the angles of a triangle. 15. $2^{40} + 2^{40}$ is equal to 2^{80} . 5×1=5 IV. Match it: (LB - lb) sq.units 16. A Circumference of a circle 360° 17. Area of the circle

180°

18. Area of the rectangular path

19. The sum of three angles in a triangle πr^2 sq.units

20. The exterior angles of a triangle add up to 2πr unit

V. Answer any six:

 $6 \times 2 = 12$

- 21. Find the decimal form of the following fractions $23 + \frac{6}{10} + \frac{8}{1000}$
- 22. Represent the following decimal numbers on the number line. (i) 1.7
- 23. The diameter of a circular well is 4.2 m. What is its circumference?
- 24. Find the area of the circle of radius 21 cm. (Use $\pi = \frac{22}{7}$)
- 25. Which is greator 34 or 43.
- 26. Simplify using laws of exponents : (i) $2^5 \div 2^3$.
- 27. If two angles of a triangle having measures 65° and 35° find the measure of the third angle.

28. Identify the correct relationship between x and y from the given table.

X	1	2	3	4	
У	4	8	12	16	

29. The following hexagonal shapes are taken from Pascal's triangle. Fill in the missing numbers.



VI. Answer any six:

 $6 \times 3 = 18$

30. There are 26 boys and 24 girls in a class. Express the fractions of boys and girls as decimal numbers.

31. Arrange the given decimal numbers in ascending and descending order. (i) 17.35, 71.53, 51.73, 73.51, 37.51

32. The radius of a tractor wheel is 77 cm. Calculate the distance covered by it in

35 rotations? (Use $\pi = \frac{22}{7}$)

33. Find the length of the Rope by which a bull must be tethered in order that it may be able to graze an area of 2464 m².

34. A floor is 10 m long and 8 m wide. A carpet of size 7 m long and 5 m wide is laid on the floor. Find the area of the floor that is not covered by the carpet.

35. Simplify using quotient rule of exponents.

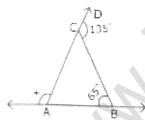
(i)
$$\frac{2^8 \times 3^5 \times 5^4}{3^3 \times 5^3 \times 2^4}$$

(ii)
$$\frac{6^6}{6^0}$$

36. Add and find the degree of the following expressions:

(i) $(K^2 - 25 K + 46)$ and $(23 - 2K^2 + 21K)$

37. Find the value of x in each of the given Triangles.



38. Complete the Pascal's Triangle.

3
1
1 1
1 2 1
1 3 3 1
4 6 1
1 10 5
6 15 20 . 1
1 21 35 7

VII. Answer any two:

 $2 \times 5 = 10$

39. Draw a triangle ABC given that AB = 6 cm, AC = 5 cm and $\angle A = 60^{\circ}$.

40. Draw an equilateral triangle of side 7.5 cm.

41. Draw a triangle PQR given that \angle P = 115°, \angle Q = 40° and PQ = 6 cm.