V7M

Virudhunagar District

Summative Assessment - December 2025

Standard 7

MATHS

Time: 2.00 Hours Marks: 60

I. Choose the best answer. **5x1=5**

1) To convert grams into kilograms, we have to divide it by
   a) 10000 b) 1000 c) 100 d) 10
2) The ratio of the area of a circle to the area of its semicircle is
   a) 2 : 1 b) 1 : 2 c) 4 : 1 d) 1 : 4
3) $2^{40} + 2^{40}$ is equal to
   a) 4^{40} b) 2^{80} c) 2^{41} d) 4^{80}
4) An exterior angle of a triangle is 70° and two interior opposite angles are eual. Then measure of each of these angle will be
   a) 110° b) 120° c) 35° d) 60°
5) What is the sum of the elements of nineth row in the Pascal's Triangle?
   a) 128 b) 254 c) 256 d) 126

II. Fill in the blanks: **5x1=5**

6) Between ..... two whole numbers 1.7 lie
7) If the circumference of a circle is 82π, then the value of 'r' is .....
8) Degree of the constant term is .....
9) The sum of three angles of any triangle is .....
10) Unit digit of 124×36×980 is .....

III. True / False: **5x1=5**

11) $3+\frac{4}{100}+\frac{9}{1000}=3.49$
12) The formula used to find the area of the rectangular path is (L×B)−(l×b) sq.units.
13) $3^4\times3^7=3^{11}$
14) $7a^2b$ and $-7ab^2$ are like terms
15) The general form of the sequence 1,4, 9, 16, ... is $y = n^2$

IV. Match it: **5x1=5**

16) Perimeter of the circle - 0
17) Area of the circle - πd units
18) Area of the circular path - 5
19) 20^{10} (unit digit of the number) - πr^2 sq.units
20) 25^{100} (unit digit of the number) - $\pi(R^2 - r^2)$ units

V. Answer any six questions: **6x2=12**

21) The height of a person is 165 cm. Express this height in metre
22) Write each of the following as decimal number
    i) $20+1+\frac{2}{10}+\frac{3}{100}+\frac{7}{1000}$ ii) $3+\frac{8}{10}+\frac{4}{100}+\frac{5}{1000}$
23) Find the area covered by a hula loop whose diameter is 28 cm $\left[\text{use } \pi=\frac{22}{7}\right]$

24) Find the area of a circular pathway whose outer radius is 32 cm and inner radius is 18 cm

25) Find the value of 13^2?

26) Find the unit digit of expanded form

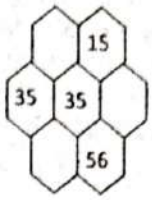
i) 11^{10} ii) 100^{12}

27) Find the degree of the following expressions

i) $-3p^3q^2$ ii) x^5

28) If two angles of a triangle having measures 65° and 35°, find the measure the third angle

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



VI. Answer any six questions: **6x3=18**

30) Express the following decimal numbers in place value grid and write the place value of the underline digit.

i) 53.61 ii) 9.657

31) Arrange the following in ascending and decending order

123.45, 123.54, 125.43, 125.34, 125.3

32) A Rose garden is in the form of circle of radius 63m. The gardener wants to fence it at the rate of 150 per metre. Find the cost of fencing?

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

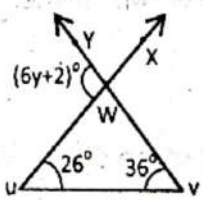
34) Simplify using laws of exponents

i) $3^5 \times 3^8$ ii) $2^5 \div 2^3$ iii) $\left(x^m\right)^0$

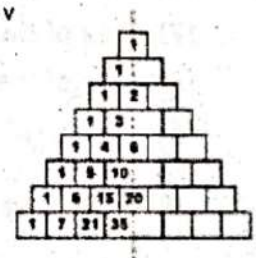
35) Add the expressions $4x^2+3xy+9y^2$ and $2x^2-9xy+6y^2$ and find the degree

36) If the three angles of a triangle are in the ratio 3:5:4, then find them.

37) With the given data in the figure, find $\angle UWY$. What do you infer about $\angle xwv$?



38) Complete the Pascal's Triangle by taking the numbers 1, 2, 6, 20 as line of symmetry



VII. Answer any two of the questions: **2x5=10**

39) Draw a triangle XYZ given that XY = 6.4 cm, ZY = 7.7cm and XZ = 5 cm

40) Draw a triangle ABC given that AB = 7 cm, AC = 6.5 cm and $\angle A = 120°$

41) Draw a triangle LMN given that LM = 5. 5 cm, $\angle M = 70°$ and $\angle L = 50°$

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