# Standard - 7 <br> MATHS 

I. Choose the correct answer:

1. A Cricket pitch is about 264 cm wide. It is equal to $\qquad$ m.
a) 26.4
b) 2.64
c) 0.264
d) 0.0264
2. If the circumference of a circle is $82 \pi$, then the value of ' $r$ ' is $\qquad$ .
a) 41 cm
b) 82 cm
c) 21 cm
d) 20 cm
3. The exponential form of 72 is $\qquad$ .
a) $7^{2}$
b) $2^{7}$
c) $2^{2} \times 3^{3}$
d) $2^{3} \times 3^{2}$
4. The degree of $6 x^{7}-7 x^{3}+4$ is
a) 7
b) 3
c) 6
d) 4
5. Which of the following rule is not sufficient to verify the congruency of two
triangles?
a) SSS rule
b) SAS rule
c) SSA rule
d) ASA rule
II. Fill in the blanks:
6. $3+\frac{4}{100}+\frac{9}{1000}=$ $\qquad$ .
7. The value of $(32 \times 65)^{\circ}$ is $\qquad$ -
8. Degree of the constant term is $\qquad$ .
9. The elements along the sixth row of the Pascal's triangle is $\qquad$ .
10. The exterior angle of a triangle is equal to the sum of the two $\qquad$ .
III. Say True or False:
11. $3+\frac{4}{100}+\frac{9}{1000}=3.49$.
12. $2^{3}<3^{2}$.
13. The degree of the expression $-4 x^{2} y z$ is -4 .
14. $30^{\circ}, 60^{\circ}$ and $90^{\circ}$ be the angles of a triangle.
15. $2^{40}+2^{40}$ is equal to $2^{80}$.
IV. Match it:
16. A Circumference of a circle

- $\quad(\mathrm{LB}-\mathrm{lb})$ sq.units

17. Area of the circle

- $\quad 360^{\circ}$

18. Area of the rectangular path

- $180^{\circ}$

19. The sum of three angles in a triangle

- $\quad \pi r^{2}$ sq.units

20. The exterior angles of a triangle add up to - $2 \pi$ r 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 $3^{4}$ or $4^{3}$.
26. Simplify using laws of exponents: (i) $2^{5} \div 2^{3}$.
27. If two angles of a triangle having measures $65^{\circ}$ and $35^{\circ}$ find the measure of the third angle.

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## V7M

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

| $x$ | 1 | 2 | 3 | 4 | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $y$ | 4 | 8 | 12 | 16 | - |

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

VI. Answer any six:
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 $2464 \mathrm{~m}^{2}$.
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) $\frac{6^{4}}{6^{0}}$
36. Add and find the degree of the following expressions:
(i) $\left(K^{2}-25 K+46\right)$ and $\left(23-2 K^{2}+21 K\right)$
37. Find the value of $x$ in each of the given Triangles.

38. Complete the Pascal's Triangle.


## VII. Answer any two:

39. Draw a triangle $A B C$ given that $A B=6 \mathrm{~cm}, A C=5 \mathrm{~cm}$ and $\angle A=60^{\circ}$.
40. Draw an equilateral triangle of side 7.5 cm .
41. Draw a triangle $P Q R$ given that $\angle P=115^{\circ}, \angle Q=40^{\circ}$ and $P Q=6 \mathrm{~cm}$.

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