

COMMON SECOND TERM SUMMATIVE EXAMINATION - 2019

STANDARD - VII

Reg. No.

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MATHS

Total Marks : 60

Time : 2.00 hours

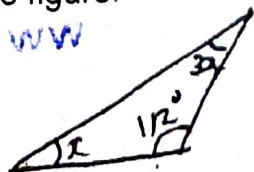
I. Choose the best answer : www.kalviexpress.in **10×1=10**

- 1) Circumference of the circle
 - a) $2\pi r$ units
 - b) $\pi r^2 + 2r$
 - c) πr^2
 - d) πr^3
- 2) $\pi =$
 - a) circumference
 - b) $\frac{\text{Circumference}}{\text{radius}}$
 - c) $\frac{\text{Circumference}}{\text{Diameter}}$
 - d) $\frac{\text{Area}}{\text{Radius}}$
- 3) The value of $1476^0 =$
 - a) 0
 - b) 1476
 - c) 1476^2
 - d) 1
- 4) The degree of $a^3b^2c^4d^2 =$
 - a) 11
 - b) 3
 - c) 2
 - d) 4
- 5) 1 Centemeter =
 - a) 10 meter
 - b) 1 meter
 - c) 0.1 meter
 - d) 0.01 meter
- 6) 1.7 lies between and
 - a) 2,3
 - b) 1,7
 - c) 1,2
 - d) 3,4
- 7) The angles of a triangle in the ratio 2:3:4 Then the angles are
 - a) $20^\circ, 30^\circ, 40^\circ$
 - b) $40^\circ, 60^\circ, 80^\circ$
 - c) $80^\circ, 20^\circ, 80^\circ$
 - d) $10^\circ, 15^\circ, 20^\circ$
- 8) The angles on a straight line is
 - a) 0°
 - b) 180°
 - c) 90°
 - d) 1°
- 9) The triangle, which can help to observe various types of number patterns.
 - i) Pascal's Triangle
 - ii) Equilateral triangle
 - iii) right angled triangle
 - iv) Acute angled triangle
- 10) $(a^m)^n =$
 - a) a^{m+n}
 - b) a^{m-n}
 - c) a^{mn}
 - d) 1

II. Answer any eight of the following :

8×2=16

- 11) A capsule contains 0.85mg of medicine. Express as fraction.
- 12) Write $\frac{2}{5}$ as decimal
- 13) Find the area of the dining table whose diameter is 105 cm.
- 14) What is the circumference of the circle of radius 49cm?
- 15) Which is greater 3^4 or 4^3 ?
- 16) Simplify and then find the degree of the expression.
 $(4m^2+3n) - (3m+9n^2) - (6m^2+3n^2)$
- 17) If two angles of a triangle having measures 65° and 85° , find the measure of the third angle.
- 18) Write any two conditions for triangles to be congruent.
- 19) Find the 'x' value in the figure.



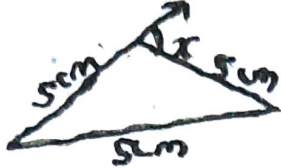
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- 20) $25^6 \times 5^6$ simplify using power rule of exponents.
- 21) In a land, a cow tethered by a rope of length 7m. Find the maximum area that the cow can graze.
22. Write any two decimal numbers which are less than 2 and greater than 1.

III. Answer any 8 of the following :

8×3=24

- 23) Can row sum of elements in a Pascal's Triangle form a pattern?
- 24) Find the value of 'x'



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- 25) If the three angles of a triangle are in the ratio 2:3:4, then find them.
- 26) The two adjacent sides of a rectangle are $2x^2 - 5xy + 3z^2$ and $4xy - x^2 - x^2$. Find the perimeter and the degree of the expression.
- 27) $25 \times 32 \times 625 \times 64$ Simplify by using the law of exponents.
- 28) There are 26 boys and 24 girls in a class. Express the fractions of boys and girls as decimal numbers.
- 29) The radius of a tractor wheel is 77cm. Calculate the distance covered by it in 35 rotations.
- 30) A floor is 10m long and 8m wide. A carpet of size 7m long and 5m wide is laid in the floor. Find the area of the floor that is not covered by the carpet.
- 31) There is a circular lawn of radius 28m. A path of 7m width is laid around the lawn. What will be the area of the path?
- 32) Express the following in meters using decimals.
i) 7cm ii) 43 cm iii) 5m 5cm
- 33) One of the angles of an isosceles triangle is 76° . Find the other two angles those are not equal to 76° .
- 34) If $3^{x-2} = 3^x + 216$, then find the value of 'x'

IV. Answer any two of the following :

2×5=10

- 35) Construct an equilateral triangle of side 7.5 cm
- 36) Construct a triangle LMN given that LM 5.5 cm, $\angle M = 70^\circ$, $\angle L = 50^\circ$
- 37) Draw a triangle ABC given that BC=8cm, AC=6cm and $\angle C = 40^\circ$

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