## COMMON SECOND TERM SUMMATIVE EXAMINATION - 2019

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Time: 2.00 hours	MATH	S	Total Marks : 60
I. Choose the best answ	ver:		10×1=10
1) Circumference of the	circle	-2	
a) 2π <sup>r</sup> units	b) π <sup>r2</sup> +2r	c) π <sup>r2</sup>	d) π <sup>r3</sup>
2) π =			
a) circumference	b) Circumference radius	c) <u>Circumferenc</u> Diameter	$\frac{e}{d}$ d) $\frac{Area}{Radius}$
3) The value of 14760=			۵) ۱
a) 0	b) 1476	c) 1476 <sup>2</sup>	d) 1
4) The degree of a <sup>3</sup> b <sup>2</sup> c <sup>4</sup> c		2) 2	d) 4
a) 11	b) 3	c) 2	u) +
5) 1 Centemeter =		c) 0.1 meter	d) 0.01 meter
a) 10 meter	b) 1 meter	0, 0.1 1110.01	-,
6) 1.7 lies between	b) 1,7	c) 1,2	d) 3,4
<ul><li>a) 2,3</li><li>7) The angles of a trian</li></ul>	ale in the ratio 2:3:4 Th		
a) 20° 30° 40°	b) 40°, 60°, 80°	c) 80°, 20°, 80°	d) 10°, 15°, 20°
8) The angles on a stra			
a) 0°	b) 180°	c) 90°	d) 1º
9) The triangle, which o	an help to observe vari	ous types of numb	per patterns.
i) Pascal's Triangle		ii) Equilaterai triangle	
iii) right angled triang	ıle	iv) Acute angle	ed triangle
10) (a <sup>m</sup> ) <sup>n</sup> =	I- \ a m-n	c) a <sup>mn</sup>	d) 1
a) a <sup>m</sup> + <sup>n</sup>	b) a <sup>m-n</sup>	C) a	8×2=16
II. Answer any eight of	the following:	proce as fraction	0.2-10
11) A capsule contains 0		press as traction.	
12) Write 2/5 as decima 13) Find the area of the	l dining table whose dia	meter is 105 cm.	
13) Find the area of the 14) What is the circumfe	arence of the circle of ra	adius 49cm?	
15) Which is greater 34			
13) William is gleater 3	6.1		

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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VII MATHS

- 20) 256 x 56 simplify using power rule if 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 I
- 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'



- 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 2x²-5xy+3z² and 4xy-x²-x². Find the perimeter and the degree of the expression.
- 27) 25x32x625x64 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 islaid around the town. 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 a isoscles 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 than LM 5.5 cm, /m =70°, /L =50°
- 37) Draw a triangle ABC given that BC=8cm, AC=6cm and /C=40°