

Zonal Education Office, Vadamaradchy

SECOND TERM EXAMINATION-2019

MATHEMATICS

Time : 2.30 hrs.

Marks :

Index No.:

Grade - 08

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- 1) How many axis of symmetry are there in an equilateral triangle.
- 2) Write down the centrury to which the day of 2019.07.20 belongs.
- 3) If 900*ml* of water is used from 2*l* 750*ml*. Find the remaining amount of water in *ml*.
- 4) Write the next two terms of the number pattern 3, 1, -1, -3, -5,
- 5) Simplify 4x+3 2x 6



7) The mass of the lorry is 62.58t. If 8t flour is loaded into the lorry. Find the total mass.

 $\sum x-1$

- 8) If 375 students are boys out of 500 students in a school. Find the percentage of girls.
- 9) PQ is a straight line If a = 70°
 Find the magnitude of b and c.
- 10) Write 0.125 as fraction and simplest form
- 11) Remove the brackets and simplify. 3(2a+b) 2(2a- b)
- 12) If 4 students are represented by the symbol \bigcirc Indicate 18 students in the picture graph.
- 13) Find the value of $48 \div 0.8$
- 14) Write the two platonic solids which has a triangular faces.



area of square is 64cm2Area of rectangle is 60cm2Write the difference between the length of the above figures.

- 16) Find the value of 8 (-2) + 3
- 17) Factorise c(a b) d (a b)
- 18) Solve : 3a 1 = 5
- 19) Fill in the cage.

20) Find the value of $\sqrt{9 \times 8 \times 3 \times 3}$

(20x2=40 marks)

PART - II

Answer the first question and any other four questions.

1)



The above activities I, II are done by angles of triangle and quaderilateral.

- i) From the activity I, which is the sum of the interior angles of triangle.
- ii) From the activity II which is the sum of the interior angle of quadrilateral.
- iii) Find the sum of interior angle of a pentagon ABCDE from the conclusion of question (I) by connect the vertices C , D with A.
- iv) a) Find the magnitude of x.





iii) Fill in the suitable symbol from \in , \notin in the blank 6 _____ A

(2+2+3+2+1+1)

4) Simplify: a) i) $\frac{1}{3} + \frac{2}{5}$ ii) $4 - 2\frac{1}{8}$ ii) $\frac{2}{5} \times 1\frac{1}{4}$ b) If $\frac{1\frac{1}{4}m}{4}$ cloth is needed to sew a pair of trousers for a

b) If $1\frac{1}{4}m$ cloth is needed to sew a pair of trousers for a student. Find the number of pair of trousers that can be sawn from 50m cloth.

(2+2+2+2+3)

- 5) a) Fractorise
 - i) 81 3a²
 - ii) $7a^2b 3ab + 2ab^2$
 - iii) Write $81x^2$ 36 as difference of two squares.
 - b) If a = 2, b = -1 find the value of $a^2 + 2ab$
 - c) i) Writre 4^3 as a power of 2
 - ii) Write $4^3 \times 3^6$ as a power of product

(2+2+2+2+1+2)

- 6) i) Find the magnitude of a
- ii) Find the magnitude of x





ii) The cost price of a clock is Rs.2000. If A trader sells with a profit of 15% Find the selling price.

iii) In a certain number of oranges, If 75% number of orange is 54. Find the total number of oranges.

b) In the mixture the ratio of cement and gravel is 1:4 and the ratio of gravel and sand 3:2

- i) Find the ratio between cement gravel and sand
- ii) Find the quantity of cement gravel and sand in the mixture of 92 pans.