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## Third Term Test - Grade 7 - 2019

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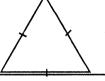
#### Name/Index No: .....

### **Mathematics**

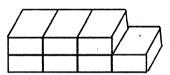
Time: 02 hours

#### Part I

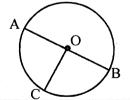
- Answer all the questions from 01 20 on the paper itself.
- Each question in part I carries twó marks.
- (1) Draw all the axes of symmetry of the given figure.



- (2) What type of angle is 135°?
- (3) Find the value of (-2) + (+2)
- (4) Add. 1.2 + 3.45
- (5) The diagram shows how small cubes each of edge 1 cm are placed to make a solid. Find the volume of this solid.



- (6) Mark the statements which represent a set using  $(\checkmark)$  from the statements given below.
  - i) Long rivers in the world (
  - (ii) Prime numbers between 1 and 10 ( )
  - (iii) Colours of the rainbow (
- (7) In the circle shown in the diagram, name
  - (i) the centre
  - (ii) the diameter



- (8) Express 0.25 as a percentage.
- (9) If prepresents 8 books in a picture graph drawn to represent the number of books distributed to the students in grade 7, find the number of books represented by property and property in grade 7.

(10)		
(10)		er of the hexagon which is constructed
	by using the equil	ateral triangle given below.



(11) Write all the outcomes obtained when tossing a coin.

(12) 125 is written in index form as.

Write suitable numbers for the blank cages.

(13) Express  $1\frac{1}{4}$  as an improper fraction.

(14) If x = 2 and y = 4, find the value of  $3x^2y$ .

(15) If 10 bottles each of capacity  $750m\ell$  were filled from a water vessel which contains  $40\ell$ , find the remaining amount of water in the vessel.

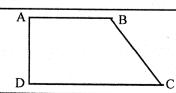
(16) Solve. 2x - 1 = 5

(17) Simplify.  $9-2\times4$ 

(18) Express 1 hour and 30 minutes as a ratio.

(19) Find the highest common factor of 6 and 8

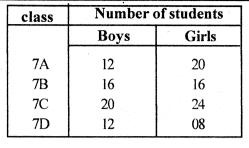
(20) Name the pair of parallel lines in the trapezium given below.



#### Part II

- Answer the 1<sup>st</sup> question and 04 other questions.
- First question carries 16 marks and all the other questions carry 11 marks each.
- (1) The information collected about the number of students in the parallel classes of grade 7, in Veera Maha Vidyalaya is given in the table below.

An incomplete multiple column graph drawn to represent the above information is given below.



•		ilation is g	, ven below.		
lents	24 20	1221			girls boys
Number of student	16 12 8			•	ooys
Z	01	7A			-> class

(i) Complete the multiple column graph.

(6 marks)

(ii) Which class has the most number of students?

(2 marks)

How many girls in total are there in all four classes? (iii)

(2 marks)

- (iv) The students in grade 7D study subjects in English medium and 300 exercise books were given to distribute among them. If these books are distributed among them equally, find the number of books received by each student. (3 marks)
- Express the number of girls in 7B as a percentage of the total number of students in that class. (v)

(3 marks)

(2) (i) Draw a cartesian plane, marking the numbers from 0 - 7 along both x and y axes. (2 marks) (ii) Mark the following points on it and join them in order to obtain a rectilinear closed plane figure.

A = (2, 2)B = (2, 7)C = (7, 2) (3 marks)

(iii) Write the name of the figure you obtained.

(2 marks)

(iv) Write the special names used for this figure.

- a) according to the sides
  - b) according to the angles

(2 marks)

- Write the coordinates of a point inside this figure in which the x coordinate is greater than its (v) v coordinate. (2 marks)
- (3) Name two regular polygons, which can be used to create a pure tessellation. (a) (i) (2 marks)
  - Create a semi-pure tessellation by using any two suitable plane figures. (ii)

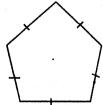
(2 marks)

- (iii) What is the sum of the angles around a vertex point in a tessellation created using rectilinear plane figures? (2 marks)

(b) Draw a concave polygon with 6 sides. (i)

(2 marks)

Three statements about the plane figure shown in the diagram are given below. If the statements (ii) are correct mark ( ) and if they are incorrect mark ( ). (3 marks)



- It is a convex polygon (a)
- It is a concave polygon (b)
- It is a regular polygon (c)

(3 marks)

