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Grade

Third Term Test -2019

		Mathematics - 1, 11			
School	:				
Name of the Student Index No:					

Time: 02 hrs.

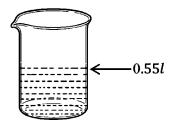
Part I				
Answer all the questions.				
01. Write two different rectilinear plane figures in the faces of the triangular prism.				
02. Write the set "A" using elements A={ Whole number between 2 and 5 }				
03. Expand and find value of $2^3 \times 3$				
04. Simplify, $4x + 2x - x$				
05. P Q R Measure and Write the magnitiude of $P\hat{Q}R$				

06	Eveness		_	maraantaaa	4
υ ο.	Express	as	a	percentage	5

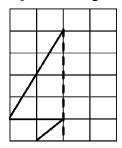
07. Simplify,
$$6 + 4 \div 2 = \dots$$

Fill the blanks using the above number line.

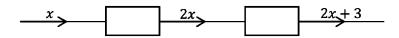
09. Express the volume of the vessel in ml.



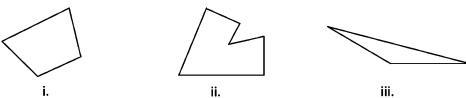
10. Complete the diagram to get a bilateral symmetrical figure.



11. Complete the given flow ehart for the equation 2x + 3 = 5



12. Underline the coneave polygons from the given polygons.



13. Select and write two leap years AD 2000 AD 2019 AD 2100 AD 2400.

14. Fill in the blanks $2m \ 5m + 3m \ 8m = \dots m \dots cm$.
15. "Rombouse is not a regular polygon", give reason for it.
16. The perimeter of a square is 20cmi. Find the side length.
ii. Find the area of the square.
17. Construct a line segment $AB = 7.5cm$
18. Express $\frac{8}{25}$ as a decimal number.
19. The given figure is a pure tesselation some lines are disappear. Re-draw the lines to make a pure tessellation.
 20. Underline the examples for random event. i. Obtaining the head when a coin is tosted. ii. Obtaining number 6 when a tetrahedron number as 1,2,3,4 is tosted. iii. A rubber ball floting on the water.

Part II

Write only five questions including the first question.

01.

- i. Draw a cartician plane with 06 units for both x axis and the y axis.
- (02)

ii. Plot the given points on the eartician plane.

(04)

- P(1,1)S(5,3)
- Q(1,5)T(3,3)
- R(5,5)U (3, 1)
- iii. Join P, Q, R, S, T, U and get a closed figure.

(01)

iv. Draw the symmetrical axis on it.

(01)

v. Produce the symmetrical axis to meet x and y.

- (01)
- vi. Name the intersecting points of x and y as A and B, and write the coordinates of A and B.
 - (02)
- b. If the side length of a small square in the grid is 1 cm Find the area of the figure P, Q, R, S, T, U.
- (02)
- c. If there are 4 concreat grits with the above shape draw a tessellation using 4 concreat grits.
- (03)

02.

a.

- Compare the fractions using ">, <" $\frac{2}{3}$, $\frac{3}{7}$. i. (02)
- Simplify, $2\frac{2}{5} + 1\frac{1}{4}$ (03)
- iii. If $1\frac{1}{4}$ Of paint is used from 4l of paint, Find the remaining amount of paint. (02)

b.

Write an equivalent ratio, 2: 4: 5 i.

- (02)
- ii. The ratio in which a sum of money was divided between A, B and C is 2:5:3 If B received Rs.700/-, Find the money received by C. (02)

03.

a.

i. Draw a square with the side length of 4cm and name it as A, B, C, D

(02)

Construct equivlateral triangles on every side of the squre.

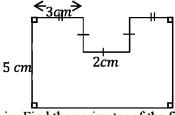
- (03)(01)
- The composite figure constructed above can be used as a net of a solid, what is that solid. iii.
- (03)

(02)

- b.
- i. Write the number of faces, vertices and edges of the above solid.
- ii. Show that the above soild satisfy Euler's relationship

04.

The given figure shows a seale diagram of a land.



- i. Find the perimeter of the figure.
- ii. Find the area of the figure.

(02)(03)

b.

i. If 2cm is represented by 1cm, write it as a seale.

(02)

ii. Find the actual perimeter of the land.

- (02)
- iii. It is proposed to fix concreat poles around the land with the 2m distance between two poles, Find the number of poles needed. (02)

05.

a.

- i. Copy the given sentences, If it is a set put a "✓" mark and if it is not a set put "x" in front of it.
 - (a) Beautiful students in your class.

(03)

- (b) The persons in your village whose monthly income is greater than Rs.35000, 00
- (e) Rich persons in your village.
- ii. Write the set "A" with the elements

Represent the set using a venn diagram.

(02)

 $B = \{ \text{ whole number from } 1 \text{ to } 5 \}$

Write the elements of the set "C"

- b. It need Rs. 305.00 to by 5 oranges with a price of Rs. x and 3 apples with a price of Rs. 35.
 - i. Construct and equation for the given data using.

(01)

ii. By solving the equation find the price of a an orange.

(03)

(01)

06. The given data shows a results of a research about infections in a village nearly 4 years.

Vaca	No : of patients				
Year	Malaria	Dengue			
2015	50	25			
2016	40	40			
2017	20	50			
2018	05	60			

i. Represent the given data using a multiple column graph.

(06)

ii. What is the infection increased yearly.

- (01)
- iii. The department of health says that the "Malaria is moderate successfully" Are you agree with it, give reason.
 - (02)
- iv. If 3 dengue patients dead in 2018. What is the percentage of dead dengue patients.