



Zonal Education Office - Vadamaradchy
Year End Examination - 2018

Grade : 07

Mathematics

Time : 2.00

Index No:

Marks:

Part I

♦ Select the most appropriate answer.

01. $A = \{ \text{Primary numbers less than } 10 \}$ Represent the above set in Venn Diagram.
02. Simplify $6 - 8 \div 3 =$
03. $2 \square 8$ is a four digital number. If it can be divided by 6 without remainder. What digit would be fitting into the empty cage?
04. Write the number 80 as the multiplication of prime numbers.
05. Write $(P \times P \times 3 \times 3 \times 3)$ in index form
06. What number should be deducted from (-8) to get the answer (-6)?
07. Using the protractor design the angle $\hat{ABC} = 8^\circ$.
08. Give the decimal number 0.55 in a simple fraction.
09. A rope of 20m length, was cut into pieces of $\frac{2}{7}m$ length. After cutting, What is the length of the remaining rope?
10. A number is represented by X. Give in algebraic expression 4 less than the half of X.

11. Give $2\frac{3}{5}$ g in mg.

12. Solve $8x + 7 = 7$

13. Simplify. $2\text{km } 45\text{m} \times 5 =$

14. According to the data of this rectangle, find its area.



15. Find the volume of the cube with a side length 3cm.

16.

l	ml
3	45
1	95

17. The number of edges of a solid object is 92. The number of its faces is 52. Find the number of its vertexes.

18. The scale of a diagram is 1 : 500. What is the actual length of a straight line represented by 5cm?

19. How is called a "tessellation". Which is designed by using the 2 or more plane figures?

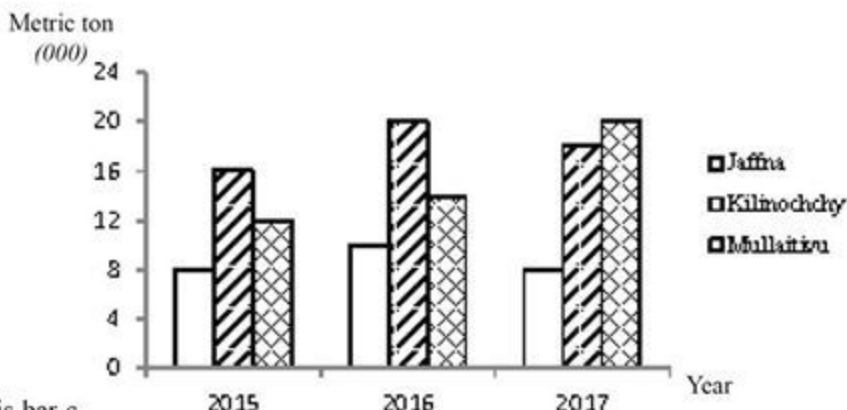
20. A cubed dice is numbered 1, 2, 3, 4, 5, 6. When it is rolled once, write out the results.

(20 x 2=40 marks)

Part II

● Answer the five questions including the first one.

01.



This bar chart shows the rice production in Jaffna, Kilinochchy and Mullaitivu between 2015 and 2017. Using this bar chart answer the following questions.

- How is called the above chart?
- In Jaffna district which is the year of maximum rice production?
- In 2016, What is the amount of rice produced in Mullaitivu district?
- In which district has the rice production increased gradually?
- What is the increase of rice production in all the three districts?
- In 2016, What is the total rice production in 2016 more than 2015 in Jaffna district.
- In a district the rice production is equal in two years. Which is that district?
- All the three years what is the total rice production in Kilinochchy?

(2 x 8=16 marks)

02. a) To make a statue, Silver and copper were mixed in the ratio 3 : 5 and the statue was made with the mixed metal.

- If the mass of the statue is 60kg, Find the masses of the silver and copper in that statue.
- In order to put the basement of the statue, silver and copper were mixed in the same ratio. If 45kg of silver has been used for the basement. what is the mass of the copper?

b) Using the following diagram, answer the following questions.



Picture

- Write the shaded areas in fractions.
- Write the shaded areas in decimals.
- Write the shaded areas in percentage.

(4+2+1+2=11 marks)

03. Drawing a suitable co-ordinate frame, mark the following points in it. Get a plane figure by joining those points in order.

A (0, 2)

B (6, 2)

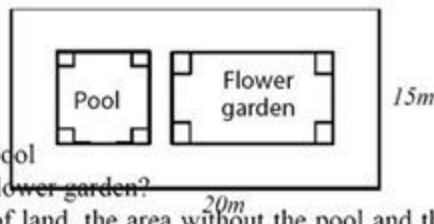
C (8, 6)

D (3, 6)

- What is the name of the plane figure.
- What is the co-ordinate of the origin.
- Write the co-ordinate of a point on the X-axis.

(6+1+2+2=11 marks)

04. In a rectangular plot of land of 20m length and 15m breadth there is a square shaped pool of 5m side length and a rectangular shaped flower garden of 9.5m length and 5m breadth.



- i) What is the area of the pool
- ii) What is the area of the flower garden?
- iii) In the rectangular plot of land, the area without the pool and the flower garden, has been planted with onions. What is the area of the onion - planted area?
- iv) What is the perimeter of the flower garden.
- v) Around the pool, pillars have to be erected at 1m distance between two pillars. How many pillars should be erected.

(2+2+3+2+2=11 marks)

05. (i) Give $\frac{6}{8}$ in mixed number.

(ii) $3\frac{3}{5}$ ——— $3\frac{2}{9}$. Put the suitable symbol in the blank choosing from <, >, or =.

(iii) Write $\frac{9}{8}$ in decimal number.

(iv) Find the value of $3 - 2\frac{5}{6}$

(v) A farmer has planted rice in $5\frac{1}{6}$ hectares and coconut in $3\frac{3}{8}$ hectares. What is the total area of the land planted by him?

(2+2+2+2+3=11 Marks)

06. (i) Which decade is the year 2018.
- (ii) Give three leap years which occurred at very close to the year 1903.
- (iii) Give the beginning and ending years of the 20th century.
- (iv)

Year Month Day

(v) Kumaran's birthday is 2011.09.06 Kumuthini's birthday is 2005.08.16. How much more is Kumuthini than Kumaran in age?

07. a) Using the set square and the ruler draw the following figures.
 - i) Draw the straight line AB with the length of 6cm.
 - ii) Mark the point P at 5.3cm distance perpendicularly from AB.
 - iii) Draw a line through P parallel to AB Name the line ML.
- b) i) Using only compass and ruler, draw an equal sided triangle PQR with 6cm of side length.
 - ii) In the triangle PQR, using ruler name the central points of the side lengths as X, Y, Z and get the triangle ΔXYZ by joining these points.

(2+2+2+3+2=11 marks)