Jaffna Hindu College

1st Term Evaluation Exam - 2022

Grade - 07	Mathamatic	Time : 2.00 Hours

Name / Index No : ....

Part - I

❖ **Answer all the questions.**

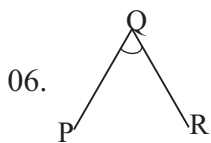01. If the price of a pen is Rs. 16.00. Find the price of 12 such pens.

02. How many axes of symmetry in the given figure

03. What is the value represented by 6 in the number 65478.

04. Write the following expression as index notation.
    $3 \times 3 \times x \times x \times x =$

05. Write $\frac{18}{24}$ in simplest form.

06. If $P\hat{Q}R = 35^0$, find the value of reflex angle $P\hat{Q}R$

07. Simplify: $9.42 - 6.75$
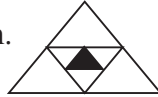
08. Write $7.04 \, kg$ in grammes.

09. Write 3, -5, 0, - 4 and 9 in ascending order.

10. Simplify. ¼ + ³⁄₁₂

11. Write the 8ᵗʰ traingular number.

12. Write 343 in index notation with 7 as the base
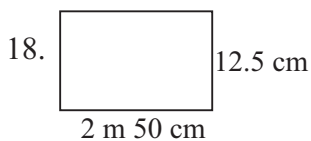
13. Write the shaded part as a fraction.

14. A solid conctructed by joining two regular tetrahedrons. Find the number of vertices, faces and edges.
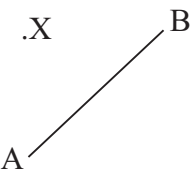
15. How many seconds are there in a day?

16. i.   What type of angle is the movement of hour hand. when time changes from 12:00 to 16:00.

    ii. Find the magnitude of the above angle.

17. The number 13 ☐ 4 is divisible by both 4 and 6.   Find the suitable digit for the empty space.

18.   12.5 cm
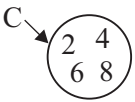   2 m 50 cm   Find the perimeter of the given figure?

19. .X   B   Measure the perpendicular distance from point X to the straight line AB .
    A

20. H.C.F and L.C.M of two numbers are 4 and 28 respectively. If one of the number is 16. Find the other number.

Part - II

❖ **Answer only five questions**

01. A) i. A = {Talented student}
A student said "A is a set". Is this statement correct? Give the reason. .

ii. B = {Letters of the word "MAHARAGAMA" }
write the elements of set B

iii. How many bilateral symmetric elements are there in this set? What are they?

iv. C → (2 4 6 8) Express the set C in terms of a common property of its elements .

B) **simplify**

i. $45 \times 3 + 12$

ii $24 - 4 \div 2 \times 5 + 2$

iii. $144 \div 6 + (15 \times 5 \times 3)$

02. A) i. when is the leap year next to 1896

ii. The period of AD 1948
a. which decade does it belongs to
b. which century does it belongs to .
c. which millennium does it belongs to

B) Add   Subtract

i. Day Hour Minute   ii. Month   Day   Hour
3   15   39   5   10   15
2   44   54   3   15   21
   _____   _____

C) Kumar's father is 29 years 5 months and 26 days older than kumar. Kumar's date of birth is 2005-02-04 what is the kumar's farther's date of birth.

03. A) i. write all the factors of 36.
ii. write the prime factors of 60
iii. Find the H.C.F of 24, 36 and 60.
iv. Find the L.C.M of 24, 36 and 60.

B) i. Fill in the blank $625 = \square^4$
ii. write in expanded form and find the value of $3^2 \times 4^3$
iii. Find the value of $5a^2 b^3$. If a = 4 and b = 5

04. A) Fill in the blanks by using the symbol > and <.
    i.   (-5) .... (+2)
    ii. 0 .... (-1)
    iii. (+4) .... (-15)
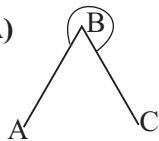
  B) Add these by using the number line.

    i.   (-1)+4
    ii. (-3)+(-2)

  C) Find the Value.
    i. $(-\frac{2}{5})+(-\frac{3}{5})$
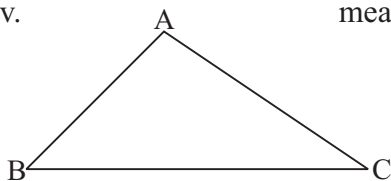   ii. (+5.4)+(-2.7)+(+6.9)
    iii. (-3.47)+(+5.91)

05. i. Draw a straight line segment AB = 6cm
    ii. Draw an angle $A\hat{B}C = 135^0$ by using the protractor
    iii. Mark the point C such that BC = 6cm.
       obtain a triangle ABC by joining the points.
    iv. Draw a straight line through C parallel to BA
    v. Mark the point D such that CD = 6cm.
    vi. Join the points A and D.
    vii. Measure the length AD
    vii. Write the special name of quadrilateral ABCD.
    ix. Draw the axes of symmetry in the figure.

06. A)

    i.   what type of angle is shown in the figure.
    ii. write vertex and arms shown in the figure.
    iii. Name the angle shown in the figure.
    iv.   measure the following angles

            i) $A\hat{B}C$ = ...
            ii) $B\hat{A}C$ = ...
            iii) $A\hat{C}B$ = ...

v. Find the value of $A\hat{B}C + B\hat{A}C + A\hat{C}B$

  B) write the following numbers in the appropriate column of the table given below.
    11727, 24004, 810534, 6654, 5200, 1573

The number is divisible by 3	The number is divisible by 4	The number is divisible by 6	The number is divisible by 9