WP/PL - St. John's College - Nugegoda
First Term Test - 2020

MATHS

Grade 07 Time -

Answer all the questions on this paper itself.

PART - I

(1) $(2+5) \times 6-2$

(2) Mark the numbers - 2 , 3, 0 , 4, - 3

(3) Fill in the following blanks using a suitable inequality sign **>** , **<** and =

- 5 ..... - 10

0 8

(4) Explain giving reasons whether number 67057 is divisible by 3.

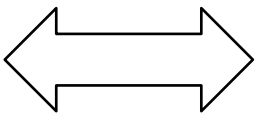
(5) Write the square numbers from 1st square number to 5th square number in the ascending order.

(6) Find the highest common factor of 12, 18 and 24.

(7) A = { Red, Orange, Yellow, Green, Blue , Indigo, Purple }

Above set A is representing one of the three methods of a set. Name the method.

(8) Draw the axes of symmetry of following symmetric .



(9) Write 625 as a power of 5

(10) Write number 64 in index notation with 6 as the index.

(11) How many days for month of February in a leap year ?

(12) Simplify, $(-6) + (+2) =$

(13) Expand $5x^2 y^3$

(14) Evaluate $5x^2 y^3$ when $x = 3$ *and* $y = 2$.

(15) Write down following decimal numbers in ascending order.

5 . 3 , 5 . 027 , 5.701

(16) Find the value of following expression when

$x = 7$

$15 - x$

(17) Round off the following numbers to the nearest multiple of ten.

i) 79 ii) 25

(18) Explains giving reasons whether number 24,561 is divisible by 9 .

(19) Write down following expression using index notation.

$a \times a \times a \times a \times a \times a \times b \times b \times b \times b =$

(20) Convert 42.5g in to mg.

St. John's College, Nugegoda

First Term Test - March 2020

Grade 07 - Mathematics

Time: 02 hours

Name: **No:**

Part II

* First question is compulsory.
* Answer another 4 questions.
* First question contains 16 marks, other 4 questions contains 11 marks each

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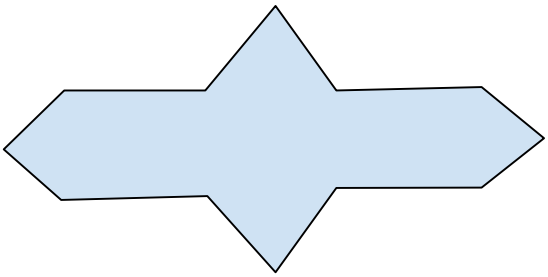
01. (i). (a). What is the number of symmetrical axis in the equilateral triangle? (m - 02)

(b).



Copy the above figure into your answer sheet and draw every axis of symmetry in it. (m - 03)

(ii). Solve

(a) (+3) + (+7) (m - 02)

(b) (+4) + (-2) (m - 02)

(c) 10 x 1000 (m - 02)

(d) 750 ÷ 10 (m - 02)

(iii). Write your birthday and find your age with years, months and days (m - 03)

(Total Marks - 16)

02. (i). Write 48 as a product of prime factors. (m - 03)

(ii). Write down each of the following products using index notation

(a) 7 x 7 x 7 x 5 x 5 (m - 02)

(b) a x a x b x a x b x a (m - 02)

(iii). Expand and write each of the following expressions as products

(a) $5^3 a^2$ (m - 02)

(b) $2^3 \times 3^3$ (m - 02)

(Total Marks - 11)

03. (i). Solve

(a)

Months	Days
3	20
+ 6	12

(m – 02)

(b)

Years	Months	Days
12	6	18
+ 14	5	19

(m – 03)

(b)

Years	Months	Days
12	6	18
− 6	8	21

(m – 03)

(ii). Write down the decades and centuries of following years

(a) 2020 (m - 01)
(b) 2100 (m - 01)
(c) 1999 (m - 01)

(Total Marks - 11)

04. (i). Draw a straight line segment AB such that AB = 5cm

(ii). Draw a straight line segment CD that parallel to AB

(iii). Draw parallelogram ABCD (Total Marks - 11)

05. (i). A is prime number between 1 to 10.

(a) Write A set using curly bracket

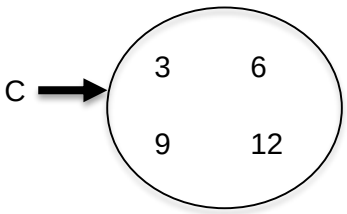
(b) Write A set in Venn diagram (m - 04)

(ii). Let B = {Multiple of 2 between 1 and 10}

(a) Write B by listing its elements

(b) Draw B in Venn diagram (m - 04)

(iii).



(a) Write the set (C) using it's common property. (m - 02)
(b) How many elements in C (m - 01)

(Total Marks - 11)

06. (i). Draw and mark following angles in your answer sheet.

(a) Acute Angle (b) Right Angle (c) Obtuse angle (d) Straight angle (e) Reflex angle (m - 05)

(ii). Draw these angles using "protractor"

(a) 35° (b) 90° (c) 75° (d) 145° (e) 180° (f) 270° (m - 06)

(Total Marks - 11)