Nalanda College - Colombo 10
First Term Evaluation - 2020
Grade - 7
Mathematics   Time:- 2 hours

Name -...................................   Class - ....   Index No. ....

1. To which decade does AD1072 belong?	2. Draw the axis of symmetry of isosceles triangle?
3. Simplify. $5 + 6 \div 3$	4. Simplify. $6 \times 5 \div 3$
5. P = {prime numbers less than 10} Represent the set P by a Venn diagram.	6. A = { 1,2,3 } Write the numbers of elements of set A.
7. The number 62….6 is devisable by 4 and 6. Write suitable digit for the empty space.	8. Write the digital index of 999.
9. Write 18 as a product of prime numbers.	10. Write the factors of 12.

11. Write base and index of a^3	12. Expand. $2^2 a^3$
13. Write the vertex of following angle. B ⟨ A, C	14. Choose the leap years from the years given below. AD 1896, AD1600, AD1400
15. How many days are for a leap year.	16. Write name for the shortest gap between two parallel straight lines.
17. Write two type of angles.	18. Simplify. (+7) + (+3) =
19. Simplify. (-7) + (+3) =	20. There is a parallel line on a plane. How many lines you can draw through a point parallel to that line on the plane

2 x 20 = 40 Marks

Part II

Answer first question and other four questions only.

1. Remind the activity was done for the lesson "factors and multiples"

   * A whole number can write as a product of two factors

   * Given two or more numbers the largest number which is a factor of all of them is known as there H.C.F.

   * Given two or more numbers the smallest of their common multiples is called L.C.M.

   I.

       a.   A number can be divided by nine. Write the digital root of that number?

       b.   Six divide the number 52 ☐ write the suitable digit for the empty space.

       c.   "A whole number can be dividing by six if it is only an even number" are you agree with the statement. Give the reason.

   II.

       a.   Write 5 multiples of 2.

       b.   Write 12 as a product of two prime factors.

       c.   Find H.C.F. of 6,12,18.

   III.

       a.   Write the number which is the factor of any number.

       b.   Find the L.C.M of 4,12,18

   16 Marks

2.

   I. Write 265 days in months and days.

   II.
Years	Months	Days
5	6	23
+6	8	15

   III.
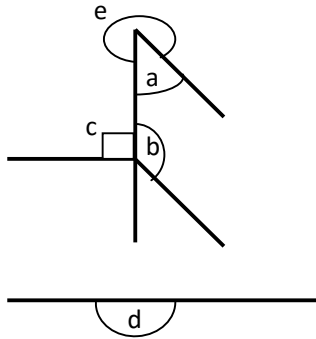 | Years | Months | Days |
   | --- | --- | --- |
   | 28 | 2 | 2 |
   | -12 | 3 | 8 |

   IV. Pramuditha's date of birth is 2013-09-07. His sister is 2 years 6 months and 3 days younger to him. What is sister's date of birth?
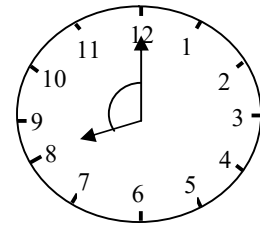
   11 Marks

3.

    I.   What is the standard unit use to measure an angle?
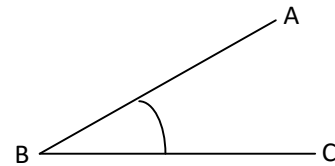
    II. Name the following angles.

    III. There is 30^0 angle when clock face shows five minutes

        a.   Write the magnitude of the angle in this figure.

        b.   What is the type of that angle

    IV. Write down the arms of this angle.

4.

11 Marks

    I.   Expand p^2q^3

    II. Write the following expression using index notation

       7 x y x y x y

    III. Write 27 in index notation with 3 as the base.

    IV. Write down the 45 as a product of powers with prime numbers as bases.

    V. Find the value of p^2q^3 when p=3 and q=2

11 Marks

5.

   I. Find the value using the number line.

      a.   (+5) + (+1)

      b.   (-3) + (-1)

      c.   (+5) + (-3)

  II. Simplify.

      a.   (+7) + (-2)

      b.   (-4) + 0

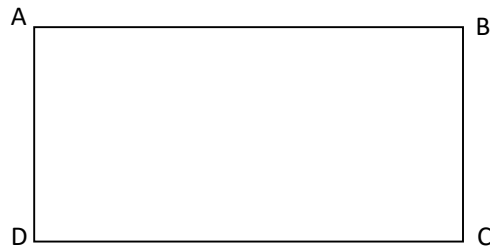   c. $\left(+\frac{3}{5}\right) + \left(-\frac{1}{5}\right)$

      d.   (-8.1) + (+2.3)

      e.   (+5) + (-5)

<div align="right">

11 Marks

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6.

   I. Name two parallel lines in this figure.

  II. A = {Letters of the word "MAHARAGAMA"}. Represent set A by writing the elements

 III. How many elements are in set A.

 IV. Write any set which has five elements.

  V. "Students who got more than 100 marks in grade 5 scholarship exam in 2019." Is this a set? Give the reason.

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11 Marks

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