



# Provincial Department of Education Northern Province



## Monthly Examination

Time :- 1 hour

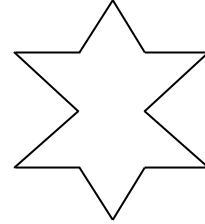
Grade - 7

Maths

July 2022

### Answer the all questions Part I

1. Find the number of axes of symmetry in the given figure?



2.  $A = \{\text{Letter of the word "COLOMBO"}\}$ , write down the elements of the above set within double brackets.

3. Simplify.  $4 + 7 \times 3$

4. Simplify.  $64 - (14 + 6) \times 2$

5.  $P = \{\text{Prime numbers between 0 and 10}\}$ , Denote the elements of set P in a venn diagram.

6. Calculate the digital root of 46325?

7. Write all the factors of 30.

8. Find the highest common factor of 12 and 18.

9. Find the least common multiples of 10, 15 and 20.

10. Write down the century to which the given year 1996 AD belongs.

11. Choose the leap years from the given years?

2012, 1900, 2000, 2014

12. Indicate 252 days in months and days.

13. Evaluate the value of  $2^5$ .

14. If  $724\Box$  is divisible by 6 exactly find two suitable numbers for the empty box.

15. If  $a = 2, b = 3$  calculate the value of  $a^3b^2$ .

(15×4=60 Marks)

#### Part II

1. (i) Write 24 and 36 as the product of prime numbers and state them in index form. Find the L.C.M of 24 and 36 from the above.

(ii) Find the L.C.M of 15, 8 and 40 by dividing method.

(iii) Write all the factors of 36, 60 and 84.

Write the common factors of 36, 60 and 84.

Find the H.C.F of them

(iv) There are red, green, yellow bulbs attached to a decorative lamp. They flash once every 8 seconds, 12 seconds, 18 seconds respectively all three bulbs flashed together at the beginning. Find after how many seconds all three bulbs will flash again?

2. (i) Electricity board charges Rs.240 for first 30 units and charges Rs.12 for the usage of each additional unit thereafter. If a person used 48 units for a particular month.

a. Write the equation to find the electricity billing amount.

b. Solve the equation and find the billing amount.

(ii) Rajan date of birth is 2006.03.12 his elder brother is 2 years 8 months and 18 days elder than Rajan. Find the date of birth of elder brother.

(iii) Rathi studied at school A for 5 years 7 months and 15 days. And at school B , 7 years 6 months and 20 days. Find the total time she studied at school.

(iv) A filling station which opens for the whole day, issues petrol for 15 vehicles per hour. Find how many vehicles can be supplied with petrol in a particular month?

(2×20=40 Marks)

May

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