



**TERM – 1 (2022 – 2023)**

**Name:** \_\_\_\_\_

**GRADE: 6**

**SUBJECT : MATHEMATICS**

**DATE:10.10.22**

**TIME : 3 Hours**

**Total Marks:80**

**I. Choose the correct answer:**

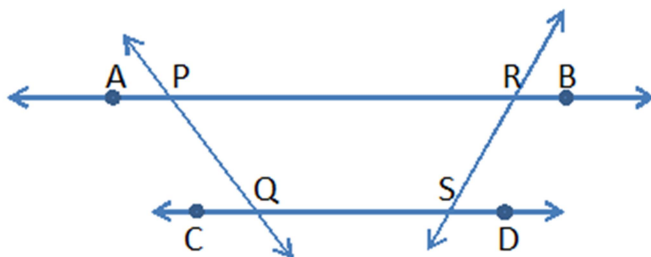
**(12X1=12)**

1. The face value of 8 in the numeral 764285  
a) 8000    b) 80    c) 800    d) 8
2. Which of the following number is equal to 10million ?  
a) 100 lakh    b) 10 crore    c) 1000 lakh    d) 10 lakh
3. if 0 is divided by any number, the number is  
a) 1    b) always 0    c) same number    d) not defined
4. The natural number that does not have a predecessor as a natural number is  
a) 2    b) 0    c) 3    d) 1
5. All factors of 8 are  
a) 1,2,4,8    b) 1,2,4    c) 2,4,8    d) 2,4
6. We can measure a  
a) line segment    b) plane    c) ray    d) line
7. 10120 is not exactly divisible by  
a) 2    b) 4    c) 6    d) 8
8. The total number of even prime number is  
a) 1    b) 0    c) 2    d) unlimited

- 9) Which of the following is another name of  $\angle ABC$  ?  
 a)  $\angle ABD$                       b)  $\angle A$                       c)  $\angle DBC$                       d)  $\angle CBA$
- 10) A line segment joining any two points of a circle is a  
 a) secant                      b) segment                      c) radius                      d) chord
- 11) The letters having two-lines of symmetry in the sentence "I AM MATH FAN" are  
 a) I and M                      b) H and I                      c) M and T                      d) H and A
- 12) Which of the following words is made up of letters having only vertical line of symmetry ?  
 a) CAT                      b) HAT                      c) BAT                      d) MAT

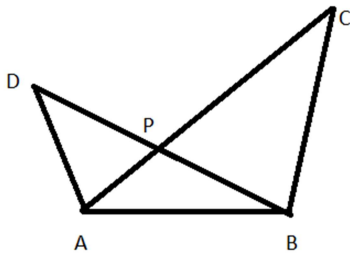
**II. Solve the following: (choose any 12 questions)                      (12X2=24)**

- 13) Make the greatest and smallest 4 digits number by using any one digit twice: a) 6, 4 ,8                      b) 0,6,3
- 14) A factory produces 4855 toys per day. How many toys will it produce in the month of February on a leap year?
- 15) Estimate the product by rounding off the numbers to the nearest 100  
 $387 \times 713$ .
- 16) Find the sum by using a short method  $24675 + 9999$  (use property)
- 17) Find the value of  $34678 \times 34678 - 34678 \times 4678$  (state the property).
- 18) Write five pairs of odd prime numbers less than 20 whose sum is divisible by 4.
- 19) In each of the following numbers replace \* by the smallest digit to make it divisible by 9 a)  $8^*730$                       b)  $6098^*5$
- 20) Write the smallest 4- digit number and express it in terms of its prime factors.
- 21) In figure find :



- a) Four collinear points                      b) three non-collinear points  
 c) Four pairs of intersecting lines                      d) Parallel lines

22) From the below figure name the following



- a) A triangle                      b) An angles opposite to side AB  
c) A line segment                d) Triangle with vertex P

23) Draw any four polygons other than the quadrilaterals and write their names.

24) Draw the following figures and find the number of lines of symmetry for each figure.

- a) Square    b) Angle with equal arms    c) Circle    d) Semi-circle

25) Find the number of lines of symmetry in each figures

- i)                      ii)                      iii)                      iv)



**III) Solve the following: (choose any 8 questions)**

**(8X3=24)**

26) Express each of the following as a Roman Numeral .

- a) 49    b) 346    c) 174    d) 598    e) 20    f) 236

27) Fill up the blanks:

- a) The smallest whole number is \_\_\_\_\_.  
b) The predecessor of the smallest 4-digit number is \_\_\_\_\_.  
c) If two whole numbers are added , the sum is always a \_\_\_\_\_ number.

28) Using the distributive property of multiplication over addition/subtraction to find a)  $7385 \times 999$ .    b)  $350 \times 103$ .

29) Give two example of numbers which is divisible by

- a) both by 8 and 4 and not by 32  
b) 3 but not 9  
c) 5 but not by 10

30) Find the HCF of the following numbers 546,728 and 1092.

31) Find the LCM of the following numbers by the short division method 112, 168 and 266.

32) Match the following:

- a) Intersecting lines - 2 or more lines passing through same point
- b) Rays - Definite length
- c) Line segment - Smooth flat surface extending in all directions
- d) Parallel Lines - Two lines with common points
- e) Concurrent lines - One end point
- f) Plane - Perpendicular distance is constant

33) Draw a quadrilateral PQRS. Mark the following points

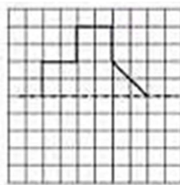
- a) A and B on the opposite sides of the quadrilateral.
- b) M and N which are interior of the quadrilateral with M near to A and N near to B.
- c) G and H which are on the exterior of the quadrilateral.

34) Complete the symmetrical figure

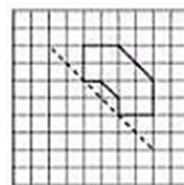
a)



b)



c)



**IV) Solve the following : (Choose any 4 questions) (4 x 5 =20)**

35) a) Put the following numerals in the Indian place value chart. Also, write them in words, and give the expanded forms of each

- i) 76085493      ii) 40404004

b) Write each of the following as a Hindu-Arabic Numeral.

- i) CLXXIV    ii) CMLXIII    iii) LI    iv) XCV

36) a) What least number must be added to 9670 to get a number exactly Divisible by 17?

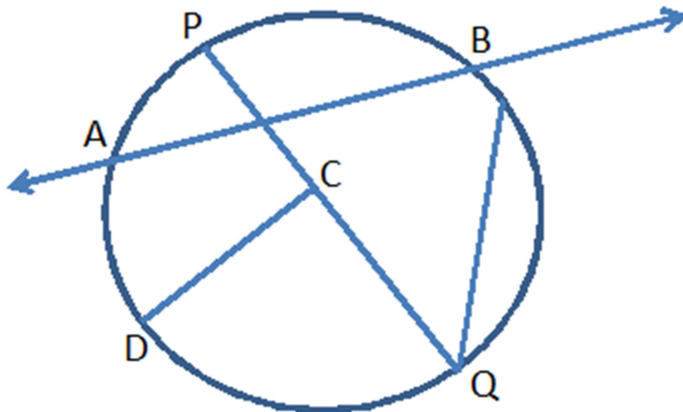
b) On dividing 46170 by 14, the remainder is 12. Find the quotient.

37) a) The LCM of two numbers is 819 and their HCF is 9. If one of the number is 91, find the other.

b) Express each of the following as directed.

- i) 86 – sum of two odd primes
- ii) 23 – sum of three odd primes
- iii) 24 – sum of twin primes

38) a) Name the following geometrical Ideas from the below Fig:



- i) A Chord ii) A Diameter iii) A Secant iv) A radius v) A minor Arc  
b) Draw and Name the described figures.

- i) A figure formed by two rays starting from the same point.  
ii) A polygon of your choice.

39) Who am I ?

- a) I am an even number less than 60, The difference between my digits is 1 and am divisible by 14.  
b) Write a prime number greater than 13 and with 4 in the tens place and whose sum is a prime number.  
c) Write the smallest 5 digit odd number using all odd digits without repeating the digits.