

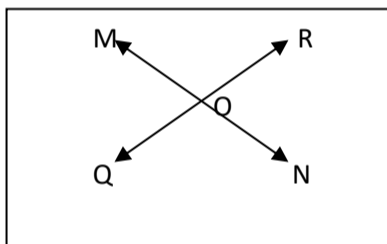
Group-A

Read the following stems and answer ~~any three of~~ the following questions:

~~10~~×3=30

1. 21, 63 and 7832 are natural numbers and 508940732030 is the voter id number of a person.
 - (a) Determine whether the pair (63, 21) are co-prime or not. Ex: 1.2-2(a,b,c) 2
 - b) Write the given voter id number in words following international system. Check the 3rd number whether it is divisible by 4 or not, using divisibility rule of 4. Ex: 1.2-3(b)
2+2
 - c) Determine the place value of the significant digits of the greatest number formed by using digits 9, 5, 4, 7, 3, 8 only once. 4
Ex1.1: 1(3),5(a,b)
2. (-12), (+8), (+200), (-350), (-170), (-460), (+310) are integers.
 - a) What do you mean by additive inverse and multiplicative inverse?Ex:3.3 2
 - b) Arrange all negative integers greater than (-12) in increasing order using relational symbol.Ex:3.1-7(a,b,c)
4
 - c) Using number line add 1st and 2nd integer of the stem.Ex:3.2-1(a,b,c,d) 4

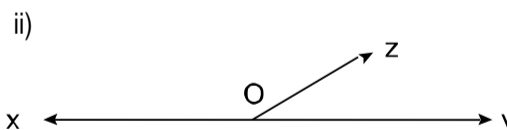
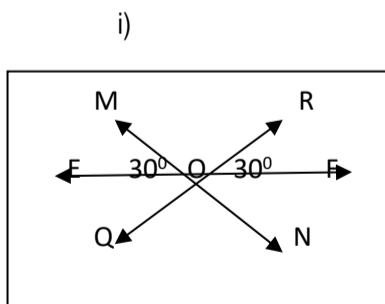
3. Observe the figure



In the above figure MN and QR are two straight lines intersect each other at the point O.

- (a) How many angles are formed at the point O? Write their name. Definition of vertical opposite angles
2
- (b) Prove that, $\angle MOQ = \angle RON$ and $\angle MOR = \angle QON$ Theorem-2
4
- (c) Prove that, bisectors of vertically opposite angles are lies in same straight line. Ex:6.1-4
4

4. Observe the figure:



- a) Write the characteristics of line, line segment and ray. Pg 125-Table
2
- b) How many rays are there in fig. (i) and what are they? Determine the value of $\angle MOR$ and $\angle QOE$. Pg 125- Activity 1
2+2
- c) Using fig. (ii) Prove that, $\angle XOZ + \angle ZOY = 2$ right angles or 180° Theorem 1
4

Group-B

Choose the best answer and write in answer script.

1×20=20

1. 1 billion = _____ lacs.

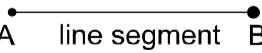
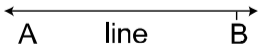
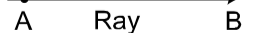
- a) 1 b) 10 c) 1000 d) 10000
2. Which pair of the following is co-prime?
 a) 21, 14 b) 10, 15 c) 27, 12 d) 9, 16
3. The number 5842 is divisible by which one of the following?
 a) 2 b) 3 c) 6 d) 9
4. Which one of the following pair is both prime and co-prime?
 a) 13, 17 b) 22, 33 c) 9, 27 d) 19, 21
5. How many prime numbers are there in 30 to 40?
 a) 3 b) 4 c) 5 d) 6

Answer the following questions 6 and 7 on the basis of the information given below:

(-12), (9) are two integers.

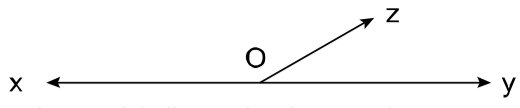
6. What is additive inverse of (-12)?
 a) -12 b) 0 c) 12 d) ± 12
7. What is the sum of given two integers?
 a) -3 b) 3 c) -21 d) 25
8. Which one of the following number is divisible by 4?
 a) 3542 b) 4184 c) 5274 d) 200750
9. What is the intrinsic value of 8 in 80709?
 a) 8 b) 800 c) 8000 d) 80000
10. Which one of the following is integer?
 a) 2.5 b) 2 c) $\frac{2}{5}$ d) $1\frac{2}{3}$
11. Which one of the following is the HCF of 11 and 15?
 a) 1 b) 2 c) 3 d) 4
12. What is called the numbers with (-) sign?
 a) Positive b) non positive c) absolute d) negative
13. $(-6) + (-2) = ?$
 a) -7 b) -6 c) -8 d) 9
14. Which one of the following is additive inverse of -5?
 a) 5 b) -5 c) $\frac{1}{5}$ d) 5^{-1}
15. Which one of the following is the sum of -9 and its additive inverse?
 a) 9 b) -18 c) 0 d) 18

16. What is the preceding number of '0'?
 a) -1 b) 0 c) 1 d) +1
17. i) 8535 is divisible by 3.
 ii) 2 is even prime number
 iii) 31, 43 is co-prime number
 Which one is correct?
 a) i and ii b) i and iii c) ii and iii d) i, ii and iii
18. What is the measure of the vertically opposite angle of 37° ?
 a) 53° b) 37° c) 127° d) 143°

19. i.  line segment AB
 ii.  line AB
 iii.  Ray AB

- Which one is correct?
 a) i and ii b) ii and iii c) i and iii d) i, ii and iii

20.



xy is a straight line and oz is a ray, then $\angle xoz + \angle yoz = ?$

a) 90°

b) 100°

c) 180°

d) 360°