

DAV PUBLIC SCHOOL, POKHARIPUT, BHUBANESWAR

TERM -I EXAMINATION 2020-21

CLASS-VI SUBJECT:-MATHEMATICS DATE:19.09.2020

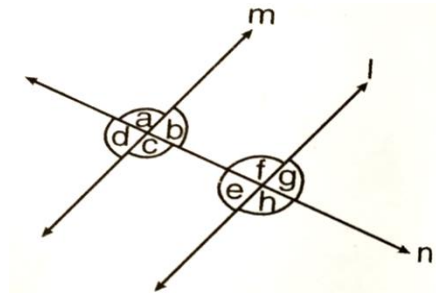
TIME:1 HR 30 MIN SET-1 MAXIMUM MARKS:40

General Instructions:

- All questions are compulsory.
- The question paper contains 40 questions each carrying one mark.
- Write the final answers only.
- Check your answers thoroughly before submitting.

**SECTION A: Choose the correct answer from the options (1 X 25= 25)**

1. Look at the figure and name the angle alternate to  $\angle d$ .



- (a)  $\angle h$     (b)  $\angle f$     (c)  $\angle g$     (d)  $\angle b$

2. What is the ratio of the number of prime numbers to that of composite numbers from the set of natural numbers from 1 to 10?

- (a) 5:4    (b) 1:1    (c) 4:6    (d) 4 :5

3. A bicycle wheel makes four and a half turns. Find the number of right angles through which it turns.

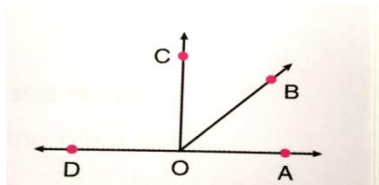
- (a)16    (b) 18    (c) 9    (d) 14

4. Find the largest 5-digit number which is exactly divisible by 40.

- (a) 99960    (b)99900    (c) 99940    (d) none of these

5. Look at the figure and choose the correct pair of complementary angles.

- (a)  $\angle DOB, \angle BOA$  (b)  $\angle COB, \angle BOA$  (c)  $\angle COB, \angle DOC$  (d)  $\angle COA, \angle DOC$



6. Find x if 8, x, 2 are in continued proportion.

- (a) 4 (b) 6 (c) 5.5 (d) none of these

7. Find the value of  $|(-40) + (-25)|$ .

- (a) -65 (b) 65 (c) 15 (d) -15

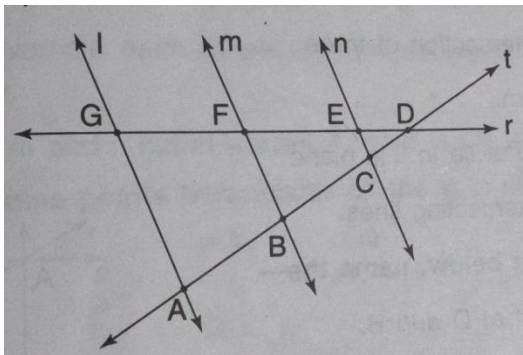
8. Find the complement of twice of 15 degree.

- (a) 30 degrees (b) 60 degrees (c) 120 degrees (d) 150 degrees

9. Express 10cm to 10m as ratio in simplest form.

- (a) 1:1 (b) 1: 10 (c) 1:100 (d) 1:1000

10. In the given figure , find the point of intersection of lines m and t.



- (a) Point B (b) point F (c) point A (d) point D

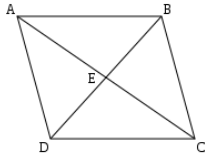
11. The greatest 5-digit number (no repetition of digits allowed) with 3 at ones place and 2 at tens place is \_\_\_\_\_.

- (a) 99932 (b) 98723 (c) 99923 (d) 99876

12. Sum of two integers is 48. If one of them is -25, find the other.

- (a) 23 (b) 63 (c) -73 (d) none of these

13. Choose the correct pair of parallel line segments in the figure given below:



- (a) AD, BC (b) BC, CD (c) AE, EC (d) AB, BC

14. Which of the following is not true?

- (a) 901674 is divisible by 3  
(b) 901674 is divisible by 8  
(c) 901674 is not divisible by 5  
(d) 901674 is divisible by 2, 6 but not by 8

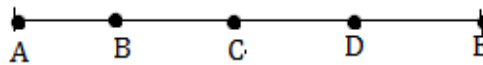
15. Which of the following Roman numeral is incorrect?

- (a) LXII (b) XCI (c) LC (d) XLIV

16. The greatest 2 digit even multiple of 5.

- (a) 50 (b) 95 (c) 90 (d) none of these

17. In the following figure, the number of line segments is \_\_\_\_\_



- (a) 20 (b) 15 (c) 10 (d) 5

18. Which ratio is greater?

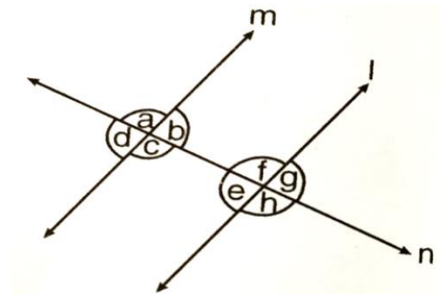
- (a) 13:27 (b) 1:2 (c) 2:3 (d) 7:5

19. Which of the following is arranged in descending order?

- (a) acute angle, obtuse angle, reflex angle, complete angle  
(b) complete angle, reflex angle, right angle, acute angle  
(c) complete angle, reflex angle, acute angle, obtuse angle  
(d) Reflex angle, right angle, obtuse angle, acute angle

20. Look at the figure and choose the angle corresponding to  $\angle f$ .

- (a)  $\angle a$     (b)  $\angle b$     (c)  $\angle c$     (d)  $\angle h$



21.  $12^2 + 5^2 = \underline{\hspace{2cm}}$

- (a) 196    (b)  $17^2$     (c) 34    (d) 169

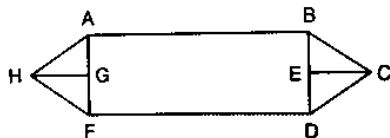
22. How many factors do 50 have?

- (a) 4    (b) 6    (c) 8    (d) none of these

23. Which of the following is arranged in ascending order?

- (a) -56, -91, -664, 102  
 (b) 102, -56, -91, -664  
 (c) -664, -91, -56, 102  
 (d) 102, -664, -91, -56

24. How many line segments are there in the given figure?



- (a) 10  
 (b) 12  
 (c) 14  
 (d) 16

25. HCF of two numbers is 16 and their product is 6400. Find their LCM.

(a) 40

(b) 160

(c) 600

(d) none of these

**SECTION B : Solve and write the final answer. (1 X 15=15)**

26. How many degrees are there in the smaller angle formed between the hour hand and minute hand of a clock when it is 7 o'clock? \_\_\_\_\_

27. How many lines can be drawn through a given point on a plane? \_\_\_\_\_

28. Find :  $(-1)^{68} \times (5-6) \times (-2)^3$  is \_\_\_\_\_

29. Find the sum of the place value and face value of 8 in 346819. \_\_\_\_\_

30. Replace (\*) by the smallest number, so that  $75^*$  may be divisible by 3.

\_\_\_\_\_

31. Simplify:  $18 - [18 - \{18 - 18\}]$  \_\_\_\_\_

32. The bus fare of 20 persons from Bhubaneswar to Puri is Rs.9400. Find the bus fare for 6 persons. \_\_\_\_\_

33. Find the ratio of price of coffee to that of tea when coffee costs Rs.26 per 100g and tea costs Rs.130 per kg. \_\_\_\_\_

34. A, B, C are any three points in a plane. Join them in pairs. How many lines can you get if A, B, C are non-collinear? \_\_\_\_\_

35. Find x if 9, 12, x and 24 are in proportion. \_\_\_\_\_

36. The sum of the greatest negative integer and smallest positive integer is

\_\_\_\_\_

37. The sides of two squares are in the ratio 3:7. The ratio of their area is

\_\_\_\_\_

38. The maximum number of points of intersection using four lines in a plane is

\_\_\_\_\_

39. The smallest 5 –digit number using only one digit is \_\_\_\_\_

40.  $\frac{5}{6}$  of complete angle= \_\_\_\_\_

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