



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL
TERM - I EXAM (2026-27)
MATHEMATICS



Class: VII
Date: 11.09.26
Admission no:

Set -1

Time: 3 hr.
Max Marks:80
Roll no:

General instructions

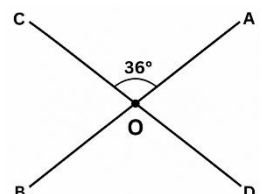
- This question paper comprises 38 questions
- This question paper is divided into 5 sections-A, B, C, D, E.
- Section A – Question no. 1 to 20 are multiple-choice questions of 1 mark each
- Section B – question no. 21 to 25 are 2 marks questions
- Section C – question no 26 to 31 are 3-mark questions.
- Section D – question no 32 to 35 are 5 marks questions
- Section E – question no 36 to 38 are case based questions which carries 4 marks each
- Attempt all questions. All answers must be correctly numbered as in the question paper and written in the answer sheet.

SECTION A

I. Choose the correct alternative and write the complete answer along with the letter of alphabet

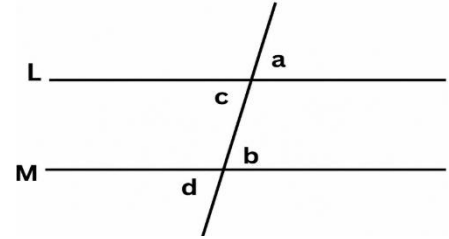
(20 x 1 = 20)

- 1 arab = _____
a) 100 crore b) 1 billion c) both a and b d) none
2. In Indian place value system one lakh one thousand one hundred one can, be written as
a)1,01,01,010 b)10,10,01,001 c)1,01,110 d)1,01,10
3. The lowest form of $\frac{34}{102}$
a) $\frac{3}{6}$ b) $\frac{17}{42}$ c) $\frac{1}{3}$ d) $\frac{3}{10}$
4. The subtraction of $\frac{3}{4}$ from $\frac{5}{6}$ gives
a) $\frac{1}{3}$ b) $\frac{1}{11}$ c) $\frac{1}{12}$ d) 1
5. The number of terms in $78 \div 9 + 2 + 24$, is
a)4 b)3 c)5 d)6
6. The expression which equals to the expression $36 - (24 - 36)$ is
a) $36 - 24 - 36$ b) $36 - 24 + 36$ c) $36 + 24 - 36$ d) none
7. The decimal representation of $\frac{1}{10} + \frac{2}{100}$ is
a)0.12 b)0.23 c)0.11 d)0.13
8. If $u = 3$ then value of $3u - 3$ is
a)3 b)6 c)9 d)2
9. The value of 'a' such that: $a \times \frac{36}{5} = 12$ is
a) $\frac{5}{3}$ b) $\frac{108}{5}$ c) $\frac{36}{5}$ d) 36
10. In the adjacent figure the $\angle BOD$ is
a) 36° b) 142° c) 144° d) 54°



11. Which is true on the basis of given figure

- a) l is not parallel to m b) $a=b$ c) $a=2b$ d) $c=10$



12. The sum of two odd numbers is

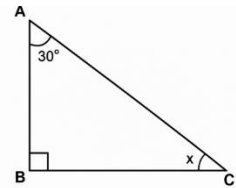
- a) even b) odd c) either odd or even d) none

13. Pick the odd one out

- a) 2006 b) 8 c) 36 d) 17

14. In the adjacent figure the value of x is

- a) 30° b) 60° c) 75° d) 45°



15. Which of the following pairs can be the angles of a triangles

- a) 110° 70° b) 145° 40° c) 150° 25° d) 150° 60°

16. Which is greater $\frac{10}{1000}$ or $\frac{1}{10}$

- a) $\frac{1}{10}$ b) $\frac{1}{1000}$ c) both are equal d) none

17. The sum of $p+q+r =$

- a) pqr b) $3p$ c) $p+q+r$ d) none

18. $\frac{3}{2}$ in decimals can written as

- a) 1.2 b) 1.5 c) 1.3 d) 2.7

The following questions number 19 and 20 consist of two statements Assertion and Reason. Answer these questions selecting the appropriate option given below

- (A) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A).
 (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
 (C) Assertion (A) is true, but Reason (R) is false.
 (D) Assertion (A) is false, but Reason (R) is true.

19. Assertion (A) there are 2 terms in $3x^6+1$.

Reason (R) terms are the parts of the expression separated by a positive sign

20. Assertion (A) the sum of 216 and 214 is an even number.

Reason (R) the sum of 2 even numbers is always odd.

SECTION B

Solve the following

21. Add $4d-7c+9$ and $8c-11+9d$

or

The perimeter of a square is 128cm. find the length of each side.

22. Define parallel lines and perpendicular lines with example
23. Write the following in Indian place value notation and their number names in Indian system
 a) 3452001 b) 1031042291
24. Solve these fractions
 a) $\frac{15}{4} \times 72$ b) $\frac{11}{13} \times 169$
25. Create a magic square number using numbers from 2 to 10

Section C

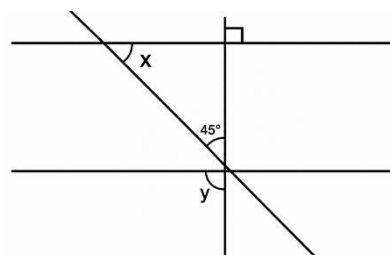
Solve the following.

26. Represent the following on number line
 a) 0.32 b) 1.421 c) 9.01
27. Sunita has a collection of coins. She has 24 coins in one bag and 36 coins in another bag. She gifts her friend 20 coins from second bag. Write an expression for the number of coins left with sunita. Simplify the expression.
 Or
 Binu earns 20500 per month. He spends 2000 on food, 5000 on rent and 1500 on other expenses every month. Write an expression describe his saving after the end of 6 months also simplify that expression and find how much does he save after the end of 6 months.
28. Write a formula to find the nth odd number and nth even number. Use this formula to find 1000th even number and 1000th odd number.
29. Construct a $\triangle ABC$ with $BC=5\text{cm}$ $AB=4\text{cm}$ and $CA=8\text{cm}$. Construct an altitude from B to AC
30. The length of the body parts of a honey bee is given Head= $3\frac{2}{10}$ units, Thorax $5\frac{5}{10}$ units and Abdomen= $5\frac{7}{10}$ units. Find the total length of the body.
31. Compare and write <, > or =
 i) 15 thousand _____ 3 lakh
 ii) 25 million _____ 2.5 billion
 iii) 201 crore _____ 20 million

Section D

Solve the following:

32. Complete the pattern by identifying it
 i) 6.2, 6.5, 6.8, __, __, __
 ii) 14.75, 14.25, 13.75, __, __, __
 iii) 2.1, 3.3, 4.5, __, __, __
 iv) 7.77, 7.87, 7.97, __, __, __
 v) 0.1, 0.3, 0.6, 1, __, __, __
33. Find the angles x and y in given figure below
 i)



34. Construct a $\triangle ABC$ where $AB=7\text{cm}$, $\angle A=45^\circ$ and $\angle B=79^\circ$. Write the steps of construction.
35. A snail is trying to climb along the wall of a deep well. During the day, it climbs up u cm and during the night, it slowly slips down d cm. This happens for 10 days and 10 nights.
- Write an expression describing how far away the snail is from its starting position.
 - What can we say about the snail's movement if $d > u$

Section E

36. A Maths teacher has given two consecutive numbers in Virahanka sequence. The numbers are 377 and 610.
- What are the next 2 numbers in the sequence?
 - Find the previous 2 numbers in the sequence?
37. Ravi is making a photo frame in the shape of a triangle. He measures the angles and finds them to be 60° each. He also finds that all the sides are of equal length.
- What type of triangle is Ravi's photo frame?
 - What is the sum of the interior angles of Ravi's photo frame?
 - Will the triangle remain the same type if all angles are 70° ? Why or why not?
38. A shopkeeper sells notebooks for ₹ x each and pens for ₹20 each. Aarav buys 6 notebooks and 4 pens.
- Write an algebraic expression for the total cost.
 - Identify the variable and the constant.
 - Find the total cost if $x=25$.

*****ALL THE BEST*****