INTERNATIONAL INDIAN SCHOOL BURAIDAH

Annual Examination (2025-2026)

Class: VII - Mathematics

Sample Question Paper

Date: Duration:3hrs Max. Marks: 80M

SECTION A

Choose the correct option from the brackets: (1× 15 = 15M)

1. One hundredth =--------- thousandth
   a)10 b) 100` c) 1000 d) none of these
2. The simplified form of p + q + p – q is
   a)0 b) 1 c) 2p d) 2q
3. A line that intersects two or more lines at distinct points is called----------
   a) Parallel lines b) perpendicular lines c) transversal
   d) linear pair
4. When two lines are equal then their alternate interior angles are
   a) Equal b) unequal c) 180° d) 90°
5. Parity of the 20^{th} term of the Virahanka sequence
   a) odd b) even c) either odd or even d) neither even nor odd
6. 5664cm =---m
   a)5.664 b) 56.64 c)566.4 d) 56664
7. In a triangle three sides are equal is called
   a) Scalene triangle b) isosceles triangle c) equilateral triangle
   d) right angled triangle
8. The decimal form of 6 tens and 5 tenths
   a)605 b) 60.5 c) 6.05 d) 65
9. The expression of 2 less than 13 times of a number is
   a)2 – 13x b) 13x – 2 c) 13 – 2x d) none of these
10. A perpendicular line drawn from a vertex to the opposite side of a triangle is called
    a) Altitude b) median c) transversal d) hypotenuse
11. The general form of the sequence 2, 5,8,11,14……
    a)3n – 1 b) 3n + 1 c) 2n – 1 d) 2n + 1
12. If two lines are intersected by a transversal, then the number of pairs of corresponding angles is----
    a)8 b) 6 c) 4 d) 2
13. Parity of the sum of 2 odd numbers and 2 even numbers is
    a) Even b) odd numbers c) odd and even d) none of these
14. How many ways can we write the number 6 as the sum of 1s and 2s

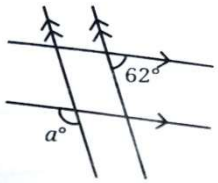
a)8 b) 4 c) 5 d) 13

15. The sum of the three angles of a triangle is
    a) 360° b) 270° c) 180° d) 90°

SECTION-B

Answer the following Questions: (2 × 11 =22M)

16. Arrange the following in descending order:
    3 $\frac{5}{100}$,3 $\frac{5}{10}\frac{7}{100}$, 3$\frac{8}{100}$ 3$\frac{1}{10}\frac{6}{100}$ 3$\frac{9}{10}\frac{8}{100}$
17. Check whether 2cm,2cm,5cm be the lengths of the side of a triangle
18. Find the value of a



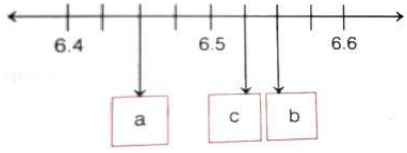
19. A light bulb is OFF. Anamika toggles its switch 75 times. Will the bulb be ON or OFF? Why?
20. Find the third angle of a triangle using parallel lines, when two of the angles are 75° and 45°
21. Identify the change and write the next 3 terms
    5$\frac{7}{10}$, 5$\frac{3}{10}$,-----,--------,--------
22. In a calendar month, if any 2× 3 grid full of dates is chosen as shown in the picture, write expression for the dates in the blank cells if the bottom middle cell has date 'w'

November 2024

Mon	Tue	Wed	Thu	Fri	Sat	Sun
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

W – 1	W	

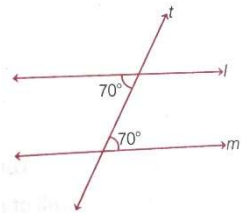
23. What decimal number does each letter represent in the number line?



24. Using the digits 1,4,0,8 and 6 once and make
    a) The decimal number closest to 30

b) The smallest possible decimal number between 100 and 1000

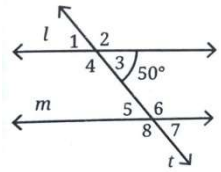
25. Simplify:
    a) p – p + 3p – 5q + 3q
    b) x + 2(x + y) – 3 (x – y)
26. Check whether the line l is parallel to m in the given figure



SECTION C:

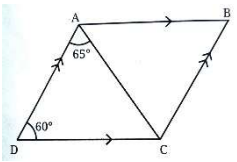
Answer the following questions: (3 × 9 = 27M)

27. Find
    a) $4\frac{4}{10}\frac{4}{100} + 4 + \frac{4}{10} + 4\frac{4}{100}$
    b) $3\frac{8}{100} - 1\frac{3}{10}\frac{3}{100}$
28. a) In the given figure, parallel lines l and m are intersected by the transversal t. If ∠3 = 50°.Find all other angles



OR

b) In the given figure line segment AB is parallel to CD and AD is parallel to BC. ∠DAC = 65° and ∠ADC = 60°. What are the measures of angles ∠CAB, ∠ABC, ∠BCD



29. Subtract 9a – 6b + 14 from [(2a-7b +1) + (3a +2b – 2)]
30. Aakash bought vegetables weighing 10Kg. Out of this 3Kg 500g onions, 2Kg 75g tomatoes and the rest of potatoes. What is the weight of potatoes?
31. Simplify and find the value of the expression
    3(2a – 4b) + 5a + 6b – 10 when a = 1 and b =0
32. a) Create a magic square whose magic sum is 45

OR

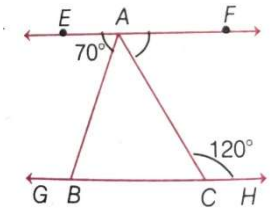
b) Write the number 8 different ways as the sum of 1s and 2s

33. Solve the following cryptarithms

a) S E N D
+M O R E
M O N E Y

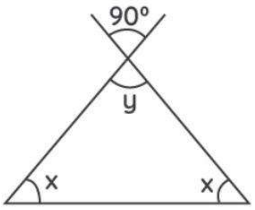
b) T W O
+T W O
F O U R

34. In the following figure, EF parallel to GH,∠EAB = 70° and ∠ACH = 120°. Then find∠CAF and ∠BAC

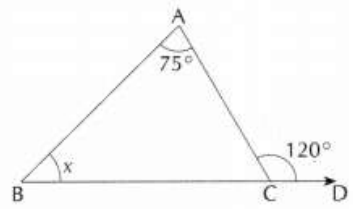


35. a) Find the unknowns of the following:

a)



b)



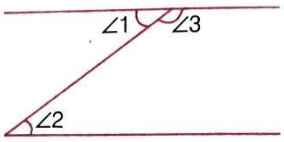
OR

b) Define the following:
1. Triangle Inequality
2. Angle sum Property of a triangle
3. Exterior angle property of a triangle

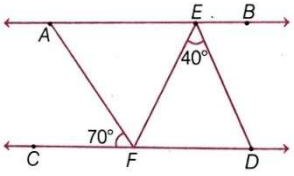
SECTION D

Answer the following questions: (4 × 4 =16M)

36. a) In the following figure, ∠ 2 = 58°. Find ∠1 and ∠3 by giving reason for each



b) In the following figure, AB ‖ CD, AF ‖ ED, ∠ AFC = 70° and ∠ FED = 40° , then find ∠EFD



37. a) Construct a ΔABC with AB = 10cm, AC = 7cm and ∠A = 60°.Write the steps of the construction

OR

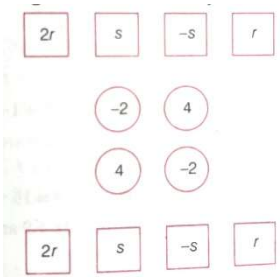
c) Construct ΔPQR with QR = 6cm, PQ =5cm, PR = 6cm. Construct an altitude from ∠Q to PR. Also write the steps of the construction

38. Write a 3×3 magic square using the numbers 3 to 11
    a) Increase each number by 1
    b) Double each number
    In each case, is the resulting grid is also a magic square? How do the magic sum change in each case

39. Find
    a) 1. (-3y + 8 – 3x) – (10x + 2 + 10y)
    2. (8a – 14b + 9) + 16b – (11 + 9a)

    OR

    b) What is the sum of the numbers in the picture (unknown values are denoted by letter-numbers)
    Try it adding in two different ways. Is the sum same?



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