

Bhavan's Tripura Vidyamandir
1st Terminal Examination : (2025-2026)

Class:7

Time: 3 Hours

Subject: Mathematics

Total: 80 Marks

Name of the student: _____

Roll: _____

Sec: _____

General Instructions:

- **Section A** contains 15 MCQs (1 to 15) each carrying 1 mark.
- **Section B** contains 10 questions (16 to 25) each carrying 2 marks.
- **Section C** contains 8 questions (26 to 33) each carrying 3 marks.
- **Section D** contains 4 questions (34 to 37) each carrying 4 marks.
- **Section E** contains 1 Case-study (38) carrying 5 marks.

SECTION A

- 1) $(-12) \times (-5) \times (-2) = ?$
a) 120 b) -120 c) 19 d) -19
- 2) The largest negative integer is:
a) 0 b) -1 c) -10 d) cannot be determined
- 3) Find: $\frac{3}{4}$ of 20
a) $\frac{3}{80}$ b) $\frac{80}{3}$ c) 15 d) $\frac{1}{15}$
- 4) 0.55 can be written in fraction form as:
a) $\frac{1}{2}$ b) $\frac{11}{20}$ c) $\frac{11}{200}$ d) $\frac{11}{2}$
- 5) Supplementary angle of 110° is
a) 70° b) 60° c) 20° d) 10°
- 6) Which of the following **cannot** be the sides of a triangle?
a) 2cm, 3cm, 4cm b) 3cm, 5cm, 7cm
c) 4cm, 5cm, 10cm d) None of these
- 7) Solve: $y - 4 = -7$
a) 3 b) -3 c) 11 d) -11
- 8) The reciprocal of $\frac{2}{3}$ is :
a) $\frac{2}{3}$ b) $\frac{3}{2}$ c) 1 d) none
- 9) $12 \div \frac{3}{4} = ?$
a) 12 b) 16 c) 18 d) 20
10. Can two obtuse angles be complement to each other?
a) never b) Always c) sometimes d) none of these
11. Vertically opposite angles are always _____
a) 180° b) 90° c) equal d) none of these
12. The mean of 4, 5, 6 is:
a) 5 b) 4 c) 3 d) 1
13. The root of the equation: $3x = 12$ is:
a) 4 b) 2 c) 0 d) 6
14. One of the base angles of an equilateral triangle is:
a) 40° b) 60° c) 70° d) none of these
15. Mean is a type of measures of _____
a) central tendency b) median
c) mode d) all of these

SECTION B

16. Multiply and express as a mixed fraction: $3\frac{2}{5} \times 8$
17. An angle is five times its supplement. Find the measure of the angle.
18. Write two pairs of integers (a, b) such that $a \div b = -3$.
19. The ages in years of 10 teachers of a BTVM are: 32, 41, 28, 54, 35, 26, 23, 33, 38, 40. Find the mean age of these teachers.
20. Draw rough sketch.(use scale and pencil)
In $\triangle XYZ$, YL is an altitude in the exterior of the triangle.
21. Set up a Simple equation of the following:
Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age.
22. Subtract :
- i) (-100) from (50) ii) 105 from (-501)
23. Fill the blanks :
- i) $3.5 \times 0.1 = \underline{\hspace{2cm}}$ ii) $6.232 \times \underline{\hspace{2cm}} = 62320$

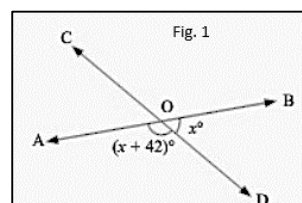
24. Draw two straight lines AB and CD and then draw their transversal. Show the two pairs of alternate interior angles. (must use scale and pencil to draw the figure)
25. Write equations for the following statements:
- (i) The sum of numbers x and 4 is 9.
ii) 2 subtracted from y is 8.

SECTION C

26. In a test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answer. Radhika answered all the questions and scored 30 marks though she got 10 correct answers.
- i) How much marks she scored for correct answers?
ii) How many incorrect answers were answered by Radhika? [1+2]
27. Vidya and Pratap went for a picnic. Their mother gave them a water bottle that contained 5 litres of water. Vidya consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water.
- i) How much water did Vidya drink?
ii) What fraction of the total quantity of water did Pratap drink?

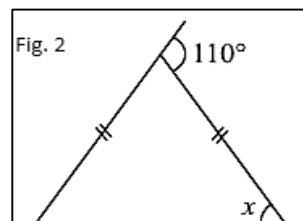
28. In the figure given below (Fig 1), find:

- i) $x^\circ = ?$
ii) $\angle BOC = ?$ (**Write the reason, if any**)



[2+1]

29. In the figure given below (Fig. 2). Find the value of x°



30. Fill in the blanks to make the following statements true:

- (i) $(-5) + (-8) = (-8) + (\dots\dots\dots)$
(ii) $17 + (\dots\dots\dots) = 0$
(iii) $-53 + \dots\dots\dots = -53$

- 31) i) Find the sum of : $(-100), (-305), (901)$
 ii) Subtract : (-66) from (-23)

32) **Solve:**

i) $4x - 6 = x + 18$ ii) $-2(x - 4) = 6$

33) i) In a given data, the smallest observation is 140 cm and the highest observation is 162 cm. Find the range of the data.

ii) Find the median of the following marks:
48, 43, 39, 38, 44

SECTION D

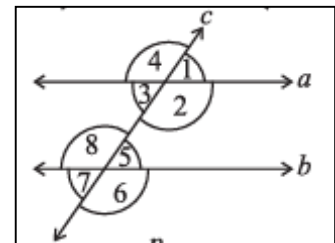
34) ABCD is a quadrilateral. Prove that $AB + BC + CD + DA < 2(AC + BD)$.

35) People of Vanghmun planted trees in the village garden. Some of the trees were fruit trees. The number of non-fruit trees were two more than three times the number of fruit trees. What was the number of fruit trees planted if the number of non-fruit trees planted was 77?

36) The length of a rectangle is 7.1 cm and its breadth is 2.5 cm. What is the area of the rectangle? Also find the perimeter of the rectangle

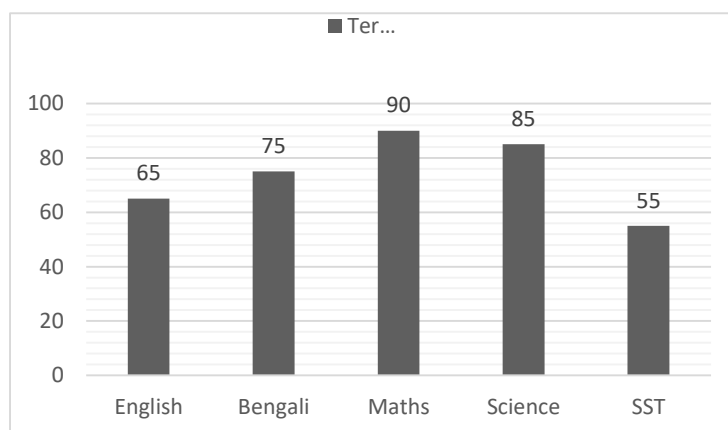
37) In the adjoining figure, identify

- (i) the pairs of corresponding angles.
- (ii) the pairs of alternate interior angles.
- (iii) the pairs of interior angles on the same side of the transversal.
- (iv) the vertically opposite angles



SECTION E (CASE BASED)

38) The performance of a student in 1st Term exam of 5 subjects is given in a bar graph below.



Answer the following:

- i) In which subject, has the child scored the most?
- ii) Find the difference of marks scored in Maths and English.
- iii) Find the ratio of marks of English to Science.
- iv) What is the range of marks of the student?
- v) Find the median of all the marks.

[1+1+1+1+1]