

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

Class:- 6

Subject:- Mathematics

Time:- 3 Hours

Total :- 80 Marks

Roll:

Sec:

Name of the student:

General Instruction:

- **Section A** contains 15 questions (1 to 15) each carries 1 mark.
- **Section B** contains 1 case-study (16 to 20) each carries 1 mark
- **Section C** contains 10 questions (21 to 30) each carries 2 marks.
- **Section D** contains 8 questions (31 to 38) each carries 3 marks.
- **Section E** contains 4 questions (39 to 42) each carries 4 marks.

SECTION A

- 1) An example of Triangular number is:
a) 28 b) 2 c) 9 d) none
- 2) When we add first three odd numbers starting from 1, we get a _____
a) square number b) cube number c) even number d) none
- 3) The sequence 1, 4, 9, 16, ... is a:
a) Power of 2 b) Square Numbers c) Power of 3 d) Cube numbers
- 4) An angle has _____ arms.
a) 1 b) 2 c) 3 d) 4
- 5) A straight angle measures _____
a) 60° b) 90° c) 180° d) none
- 6) Two lines are called Perpendicular lines if the angle between them is:
a) 0° b) 60° c) 90° d) 180°
- 7) One of the palindromic number using 1, 2, 3 can be :
a) 123 b) 321 c) 313 d) 231
- 8) What is the fourth number of a Collatz Conjecture starting from 12?
a) 7 b) 8 c) 9 d) 10
- 9) A pictograph represents data through _____
a) Pictures b) bars c) lines d) none
- 10) A number which is multiple of both 3 and 5 is :
a) 21 b) 20 c) 30 d) 27
- 11) The number 24 has _____ divisors.
a) 6 b) 7 c) 8 d) 12
- 12) Which of the following is not a Co-prime?
a) 3 and 17 b) 4 and 19 c) 7 and 21 d) 5 and 11
- 13) When two lines in the same plane do not meet each other, they are called _____
a) Perpendicular lines b) intersecting lines c) parallel lines d) none
- 14) (_____ x 12) + (8 x 12) = 50 x 12
a) 38 b) 43 c) 42 d) 39
- 15) 216 is divisible by:
a) 2 b) 3 c) 6 d) All of these

SECTION B

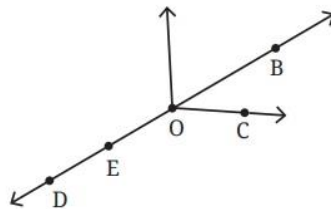
A man collected an information about the study hours of class 6 children. He found that some students always study 5 hours a day, some of them sometimes study 5 hours a day and some students never study 5 hours a day. Based on this information he prepared the following pictograph. Now, answer the following questions using the pictograph.

Response	Number of Children (▲ = 10 Children)
Always	4▲
Sometimes	3▲
Never	4▲

- 16) How many students always study 5 hours a day?
a) 20 b) 30 c) 40 d) 50
- 17) How many students sometimes study 5 hours a day?
a) 25 b) 35 c) 50 d) 60
- 18) How many students never study 5 hours a day?
a) 40 b) 55 c) 70 d) 100
- 19) How many children are there in total?
a) 115 b) 555 c) 666 d) 225
- 20) The total number of children who sometimes study 5 hours a day and who never study 5 hours a day are:
a) 55 b) 65 c) 75 d) 90

SECTION C

- 21) How many sides are there in a i) hexagon ii) decagon?
- 22) Define Obtuse angle. Draw a rough sketch of an obtuse angle.
- 23) In the figure given below, write i) A ray, ii) A line segment



- 24) Name any two types of graphs by which data is represented?
- 25) Find the factors of 32.
- 26) The number of girl students in each class of a school is depicted by the pictograph:

Classes	Number of Girl Students (👧 = 4 Girls)
1	5👧
2	4👧
3	5👧
4	4👧
5	3👧

- i) How many girls are there in class 2?
- ii) Which class has the lowest number of girls?
- 27) What are Twin primes? Give an example.
- 28) Draw four lines which are concurrent. Mark the point of concurrence as 'm'.
- 29) Without performing actual division, check the divisibility of 9348 by 3.
- 30) The age (in years) of 15 students of Class 6 of a school are given by: 11, 12, 11, 10, 13, 10, 11, 11, 14, 12, 11, 10, 13, 10, 12. Prepare a frequency distribution table with tally marks.

Section D

31) Draw the following figures (draw with scale and pencil)

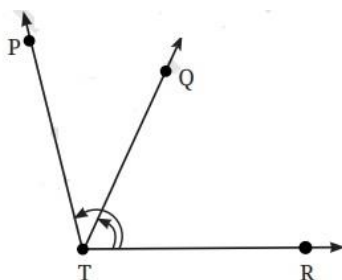
i) Triangle

ii) Quadrilateral

iii) Pentagon

[1+1+1]

32) Name the angles marked in the given figure:



33) Find the smallest and largest 5- digit palindrome. Then find their difference. Also find their sum. [1+1+1]

34) In a bar graph 1 unit length = 10 runs. How units may would be the length of the bars to represent (i) 100 runs and (ii) 45runs in the same scale?

35) Pooja collected data on the number of tickets sold at the Agartala railway station for a few different cities of Tripura over a two-hour period.

City	Dharmanagar	Kamalpur	Belonia
No. of tickets sold	25	15	35

Draw a Bar graph of the above given data.

36) Write 3 pairs of prime numbers less than 20 whose sum is a multiple of 5

37) True/False :

(i) A ray extends infinitely on one side of it.

(ii) A line segment has two end points.

(iii) Collinear points never lie on the same line.

38) The Population in a town is 98865. If the number of men be 30857 and the number of women be 29943, find the number of children.

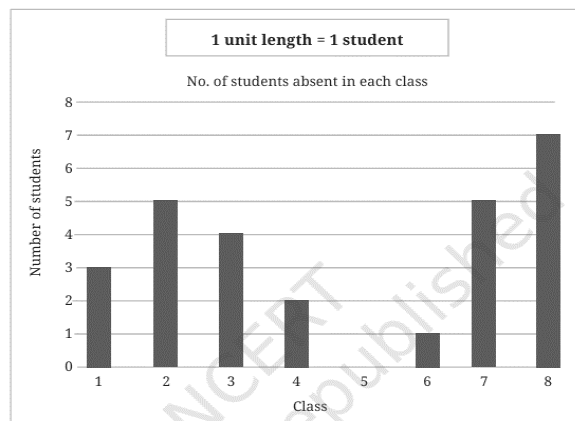
Section E

39) Draw the following angles using protractor (Draw with pencil)

i) 100° ii) 60°

40) Answer the following questions using the bar graph given alongside:

- In Class 2, _____ students were absent that day.
- In which class were the maximum number of students absent?
- Which class had full attendance that day?
- Find the total number of students from class1 to class 8 who were absent that day.



41) Draw the first four Stacked Triangles.

42) i) Write the prime factorisation of 105.

ii) Find the largest and smallest 4-digit numbers that are divisible by 4 and are also palindromes.