



BGS Vijnatham School

UNIT TEST 2 (2026-27)

Subject: Mathematics

Step: VI

Maximum Marks: 40 Marks

Name of the Student: _____

Time Duration: 1 hour 20 min

Date: 27.07.26

General Instructions:

1. This Question Paper has 5 Sections A, B, C, D, and E.
2. Section A has 9 Multiple Choice Questions and 2 Assertion and reasoning questions carrying 1 mark each.
3. Section B has 3 Short Answer type 1 (SA-1) questions carrying 2 marks each.
4. Section C has 3 Short Answer type 2 (SA-2) questions carrying 3 marks each.
5. Section D has 2 Long Answer (LA) questions carrying 5 marks each.
6. Section E has 1 Case Based Questions of 4 marks each.
7. There is no overall choice. However, internal choices have been provided in some questions.

SECTION A

Q.No.	QUESTIONS	Marks
1.	What is the difference between the smallest four-digit number and the largest three-digit number? (a) 1 (b) 10 (c) 100 (d) 101	1
2.	Which type of graph uses rectangular bars to represent data? (a) Pie Chart (b) Pictograph (c) Bar Graph (d) Line Graph	1
3.	Which of the following is the Kaprekar constant? (a) 3524 (b) 6174 (c) 7641 (d) 4716	1
4.	In a pictograph, ★ represents 6 bicycles. If there are 5 ★, how many bicycles are represented? (a) 24 (b) 28 (c) 30 (d) 36	1
5.	How many times does the digit 8 appear when writing all the numbers from 1 to 100? (a) 18 (b) 19 (c) 20 (d) 21	1
6.	Which of the following statements about pictographs is TRUE? (a) Symbols can represent different values. (b) Every symbol should represent the same quantity. (c) Pictures are not used in pictographs. (d) Half symbols cannot be used.	1
7.	The greatest 5-digit number having exactly 3 different digits is: (a) 99897 (b) 99987 (c) 98997 (d) 99789	1
8.	The supercell in the given table is _____.	1
9.	In a bar graph, the heights of bars are: Red = 40, Blue = 55, Green = 35, Yellow = 25. How many more students are there in Blue House than Green House? (a) 15 (b) 20 (c) 25 (d) 30	1

10. Assertion (A): 7447 is a palindrome number. 1
Reason (R): A palindrome number reads the same from left to right and right to left.
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.
11. Assertion (A): The tally marks for 17 are ||||/ ||||/ ||||/ ||
Reason (R): Every fifth tally mark is drawn across the previous four.
(a) Both A and R are true and R is the correct explanation.
(b) Both A and R are true but R is not the correct explanation.
(c) A is true but R is false.
(d) A is false but R is true.

SECTION B

12. Using the digits 2, 5, 8 and 9 without repetition, make the smallest five-digit number. 2
13. The current time is 03:42. After how many minutes will the next palindromic time appear? 2
14. A pictograph uses  = 8 fruits. If 52 fruits are represented, how many symbols are needed? 2

SECTION C

15. How many iterations of Kaprekar's routine are required for 8251 to reach Kaprekar's constant? OR Riya had 742 marbles. She gave 286 marbles to Aman and 154 marbles to Meera. Estimate how many marbles are left with Riya. 3
16. The number of computers in four laboratories is given below: 3
Lab: A B C D
Computers: 20 35 45 30
Prepare a suitable pictograph to represent the above data.
17. The following raw data show the number of storybooks read by students: 3, 2, 4, 5, 3, 2, 5, 4, 3, 2, 5, 4, 2, 3, 5, 2, 4, 3, 2, 5 3
(a) Prepare a tally table.
(b) Write the frequency of each number.
(c) Which number occurs the least number of times?

SECTION D

18. Determine the sum and the difference of the smallest and the largest 4-digit palindrome numbers. 5

19. The following data show the number of students participating in different competitions: 5
Dance – 40, Music – 25, Art – 55, Sports – 45,
Draw a suitable bar graph and answer:
(a) Which competition has the highest participation?
(b) Find the difference between the highest and the lowest participation.

OR

The table below shows the number of notebooks sold by a shop.
January – 30, February – 45, March – 35, April – 50, May – 40
(a) Draw a suitable bar graph.
(b) Explain why you selected that scale.
(c) Write any three observations from your graph.

SECTION E

20. Read the following data showing the number of trees planted by a school over 4
five years and answer the questions:
2021 – 180, 2022 – 250, 2023 – 320, 2024 – 290, 2025 – 410
(a) In which year were the maximum trees planted?
(b) How many trees were planted in 2022?
(c) Find the difference between the trees planted in 2025 and 2021
(d) In which years were more than 300 trees planted?