

PM SHRI KENDRIYA VIDYALAYA SITAPUR SHIFT-1

Periodic Test-1 (2024-25)

Class-VIIth

Subject- Mathematics

Time allowed- 1 ½ hours

Max. Marks- 40

GENERAL INSTRUCTIONS :

- (i) All the questions are compulsory. There are four sections A , B and C.
- (ii) There are 10 questions in Section A . Each question carries 1 mark..
- (iii) There are 6 questions in Section B . Questions no 11 and 12 carries 2 marks each, Questions no 13 and 14 carries 3 marks each, Questions no 15 and 16 carries 5 marks each .
- (iv) There are 2 CCT questions in Section C . Each question carries 4 marks.

SECTION – A (10 X 1 Mark = 10Marks)

Multiple Choice Questions (Q 1 to Q 8) Question 9 and 10 are Assertion Reason

1. $(-11) \times 7$ is not equal to
(i) $11 \times (-7)$ (ii) $-(11 \times 7)$ (iii) $(-11) \times (-7)$ (iv) $7 \times (-11)$
2. 7 rupees 7 paise can be written in rupees as:
(i) ₹ 7.07 (ii) ₹ 0.707 (iii) ₹ 7.07 (iv) ₹ 707
3. Mean of the first five natural numbers is:
(i) 2 (ii) 3 (iii) 5 (iv) 4
4. What should be filled in the Blanks to make the statement true:
 $7 + \underline{\hspace{2cm}} = 0$
(i) 0 (ii) 17 (iii) -17 (iv) -7
5. A fraction equivalent to $\frac{5}{8}$ is
(i) $\frac{60}{40}$ (ii) $\frac{40}{64}$ (iii) $\frac{5}{60}$ (iv) $\frac{8}{40}$
6. The value of $3\frac{1}{2}$ of $\frac{8}{3}$ is
(i) 4 (ii) $\frac{28}{3}$ (iii) $\frac{9}{4}$ (iv) $\frac{21}{16}$
7. Which of the following is greater:
(i) 0.5 (ii) 5.5 (iii) 0.005 (iv) 0.05
8. A cricketers scores the following runs in eight innings:
58, 76, 40, 35, 46, 45, 0, 100
What will be the average score of the cricketer?
9. Which of the following is the additive inverse of "a" ?
(i) $\frac{1}{a}$ (ii) $-a$ (iii) $-(-a)$ (iv) $-\frac{1}{a}$
10. The Product of 5 and -2 is
(i) 10 (ii) -10 (iii) 0 (iv) 1
11. **Assertion:** If $16 \div x = 16$, then x is equal to 1.
Reason: $16 \div 1 = 16$.
a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion
b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
c.) assertion is true but the reason is false.
d.) both assertion and reason are false.
12. **Assertion:** $\frac{2}{7}$ is an improper fraction.
Reason: in improper fraction numerator is greater than denominator.
a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion
b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
c.) assertion is true but the reason is false.
d.) both assertion and reason are false.

SECTION – B

13. Evaluate $85 \times 43 + 43 \times 15$ using property. (2Marks)
14. Write in expanded form of 205.45. (2Marks)

15. An elevator descends into a mine shaft at the rate of 6m/min. If the descent starts from 10 m above the ground level, how long will it take to reach -350 m? **(3Marks)**
16. A car runs 16 km using 1 litre of petrol. How much distance will it cover using $2\frac{3}{4}$ litres of petrol? **(3Marks)**
17. In a class test containing 10 questions, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted. **(5Marks)**
- (i) Mohan gets four correct and six incorrect answers. What is his score? **(1Marks)**
- (ii) Reshma gets five correct answers and five incorrect answers, what is her score? **(2Marks)**
- (iii) Heena gets two correct and five incorrect answers out of seven questions she attempts. What is her score? **(2Marks)**
18. Consider this data collected from a survey of a colony **(5Marks)**

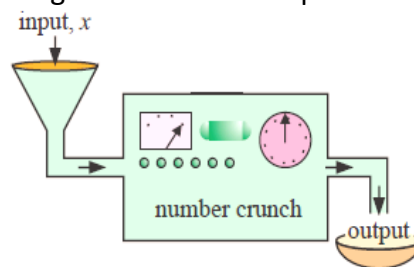
Favourite sports	Cricket	Basket Ball	Swimming	Hockey	Athletics
Watching	1240	470	510	430	250
Participating	620	320	320	250	105

- (i) Draw a Double bar graph choosing an appropriate scale **(3Marks)**
- (ii) Which sport is most popular **(1 Mark)**
- (iii) Which is most preferred, watching or participating in sports? **(1Mark)**

SECTION – C (2 X 4 Mark = 8Marks)

CCT Questions

19. The figure shows a number crunching machine in which any integer can be fed as input. There are a set of instructions which produces output as follows:



If a positive integer is fed into the number crunching machine, it produces one of two results:

- If the integer fed in is EVEN, the machine divides the number by 2.
- If the integer fed in is ODD, the machine subtracts one from the number.
- If a negative integer is fed into the number crunching machine, it produces its additive inverse.

(a) Find the result when the following numbers are fed into the machine: (2 Marks)

- (i) 123 (ii) -72

(b) What can be the input to the machine if the output is 18? (2 Marks)

20. We may marvel at the long jumping abilities of our top Olympic athletes. The current world

record is held by Mike Powell of America i.e. $29\frac{1}{3}$ feet (approx.). In India M. Sreeshankar of Kerala is

the national record holder in long jump with a jump of i.e. $26\frac{3}{4}$ feet (approx.). But their abilities are overshadowed by some of the animals in the animal's kingdom. A grey Kangaroo can take a long

jump up to 44.5 feet (approx.) A Snowshoe Hare can cover $28\frac{1}{2}$ feet (approx.) in three jumps but on the other hand a frog can cover only $\frac{1}{16}$ feet (approx.) in four jumps.

(a) How much distance will the frog cover in 15 jumps? (2 Marks)

(b) If the frog takes 672 jumps and the snowshoe hare takes 1 jump, who will be ahead of the other and by how much? (2 Marks)