# ATOMIC ENERGY CENTRAL SCHOOL -2, MUMBAI <br> BARC COLONY, ANUSHAKTINAGAR 

## PERIODIC TEST-1(2023-2024)

## Class 07 - Mathematics

## Time Allowed: 1 hour and 30 minutes

## General Instructions:

1. This Question Paper has 5 Sections A-E.
2. Section A has 10 MCQs carrying 1 mark each
3. Section $B$ has 3 questions carrying 02 marks each.
4. Section C has 2 questions carrying 03 marks each.
5. Section D has 2 questions carrying 05 marks each.
6. Section E has 2 case based integrated units of assessment (04 marks each) with subparts of the values of 2 and 2 marks each..

## Section A

1. Find: $(-136) \div 4$
a) -32
b) 32
c) 34
d) -34
2. Find the difference between $-2^{\circ} \mathrm{C}$ and $1^{\circ} \mathrm{C}$.
a) $1^{\circ} \mathrm{C}$
b) $-1^{0} \mathrm{C}$
c) $3^{0}$
d) $-3^{\circ} \mathrm{C}$
3. $\div(4)=-3$
a) -12
b) 7
c) -7
d) 12
4. $\frac{2}{3}$ of 15 is $\qquad$
a) 30
b) 10
c) 40
d) 20
5. The mass of a jar of sugar is 1.9 kg . What is the total mass of 13 jars of sugar?
a) 65 kg
b) 28 kg
c) None of these
d) 24.7 kg
6. $\frac{3}{5}$ of a group of children were girls. If there were 24 girls, how many children were there in the group?
a) 30
b) 60
c) 40
d) 50
7. Vidya and Pratap went for a picnic. Their mother gave them a water bag that contained 5 litres of water. Vidya
consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water. What fraction of the total quantity of water did Pratap drink?
a) None of these
b) $\frac{1}{4}$
c) $\frac{1}{2}$
d) $\frac{3}{5}$
8. The range of the data- $9,8,4,3,2,1,6,4,8,10,12,15,4,3$ is
a) 12
b) 14
c) 15
d) 10
9. The difference between the highest and the lowest value of the observations in a data is called:
a) Total frequency
b) Sum of observation
c) Mean
d) Range
10. Out of 4 brands of chocolates in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency would be most appropriate if the data is provided to him?
a) Mean
b) Median
c) Mode
d) None of these

## Section B

11. Find the value:
a. $25 \div(-5)$
b. $-36 \div(-3)$
12. A cricket scores the following runs in eight innings: $58,76,40,35,46,45,0,100$. Find the mean score.
13. Find the mode of the given data: $2,4,6,5,6,4,8,9,2,4,2,3,2$

## Section C

14. Verify the property $x(y+z)=x y+x z$ using $x=-3, y=-5$ and $z=7$.
15. Reshma uses $\frac{3}{4} \mathrm{~m}$ of cloth to stitch a shirt. How many shirts can she make with $2 \frac{1}{4} \mathrm{~m}$ cloth?

## Section D

16. Construct the frequency distribution table for the data on heights (cm) of 20 boys using the class intervals 130 -

135, 135-140 and so on. The heights of the boys in cm are: $140,138,133,148,160,153,131,146,134,136$, $149,141,155,149,165,142,144,147,138,139$. Also, find the range of heights of the boys.
17. Which is greater: $\frac{2}{7}$ of $\frac{3}{4}$ or $\frac{3}{5}$ of $\frac{5}{8}$

## Section E

18. Read the text carefully and answer the questions:

A shopkeeper earns a profit of ₹ 1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock.

(i) $a \div(-b)=\_$where $b \neq 0$.
(ii) In a particular month she incurs a loss of Rs 5 . In this period, she sold 45 pens. How many pencils did she sell in this period?
a) 1000 pencils
b) 10 pencils
c) 50 pencils
d) 100 pencils
19. Read the text carefully and answer the questions:

Radhika purchased 1.5 kg Potatoes, 2.5 kg Tomatoes, 1.5 kg carrot and 3.5 kg onions The price chart is as below.


| Vegetable | Price per kg (₹) |
| :---: | :---: |
| Potatoes | 20.50 |
| Tomatoes | 16.50 |
| Chilies | 40.75 |
| Onions | 23 |
| Carrot | 35.50 |

(i) Money paid by Radhika for potatoes is ₹ $\qquad$ .
(ii) How much money did she pay for tomatoes?
a) 41.75
b) ₹ 40.25
c) ₹ 41.25
d) 400.5

