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

# **PERIODIC TEST-1(2023-2024)**

**Class 07 - Mathematics** Time Allowed: 1 hour and 30 minutes **Maximum Marks: 40 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:  $(-136) \div 4$ [1] a) -32 b) 32 c) 34 d) -34 [1] 2. Find the difference between -2° C and 1° C. a) 10 C b) -1° C c) 3º d) -3° C 3.  $\pm$  (4) = -3 [1] a) -12 b) 7 c) -7 d) 12  $\frac{2}{3}$  of 15 is \_\_\_\_\_. 4. [1] a) 30 b) 10 d) 20 c) 40 5. The mass of a jar of sugar is 1.9 kg. What is the total mass of 13 jars of sugar? [1] b) 28 kg a) 65 kg c) None of these d) 24.7 kg  $\frac{3}{5}$  of a group of children were girls. If there were 24 girls, how many children were there in the group? 6. [1] b) 60 a) 30

d) 50

Vidya and Pratap went for a picnic. Their mother gave them a water bag that contained 5 litres of water. Vidya

c) 40

7.

[1]

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

[1]

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:

[1]

[1]

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:

[2]

- 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.
- [2] [2]

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) = xy+xz using x=-3, y=-5 and z=7.

- [3]
- 15. Reshma uses  $\frac{3}{4}$  m of cloth to stitch a shirt. How many shirts can she make with  $2\frac{1}{4}$  m cloth?

[3]

#### Section D

- 16. Construct the frequency distribution table for the data on heights (cm) of 20 boys using the class intervals 130 **[5]** 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:

[4]

A shopkeeper earns a profit of  $\mathfrak{F}$  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:

[4]

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.



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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 ₹ \_\_\_\_\_\_.
- (ii) How much money did she pay for tomatoes?
  - a) 41.75

b) ₹ 40.25

c) ₹ 41.25

d) 400.5