



# CIS INTERNATIONAL SCHOOL

An English Medium Co-Educational School (Airakhera, Raya, Mathura)  
Periodic Assessment – II

Subject – MATHS

Time – 01:30 Hrs.

Class -- 9<sup>th</sup>

Max. Marks – 40

## General Instructions:

- (i). All questions are compulsory.
- (ii). This question paper contains **20 questions** divided into three **Sections A, B, and C**
- (iii). **Section A** comprises of **10 questions** of **1 mark** each. **Section B** comprises of **5 questions** of **2 marks** each. And **Section C** comprises of **5 questions** of **4 marks** each.
- (iv). Use of **Calculators** is not permitted.

## SECTION - A

❖ Question numbers 1 to 10 carry 1 marks each

➤ **Multiple Choice Question (MCQ):**

1. The difference between the **upper** and **lowest class limit** is called  
(a) frequency (b) mean (c) range (d) class- intervals
2. **Tally** are usually marked in a **bunch** of  
(a) 3 (b) 4 (c) 5 (d) 6
3. Which one of the following is not the graphical representation of **statical** data :  
(a) Bar graph (b) Histogram (c) Frequency polygon (d) Cumulative frequency distribution
4. If the mean of the five observations  $x, x+2, x+4, x+6, x+8$ , is 11, then the Mean of **first three** observations is  
(a) 7 (b) 5 (c) 8 (d) 10
5. A fair coin is tossed 100 times and the **Head** occurs 58 times and Tail 42 times the experimental **probability** of getting a Head is:  
(a)  $\frac{1}{2}$  (b)  $\frac{21}{50}$  (c)  $\frac{29}{50}$  (d)  $\frac{42}{56}$
6. The **probability** of an **impossible** event is :  
(a) 1 (b) 0 (c) less than 0 (d) greater than 1
7. Which of the following **cannot** be the **probability** of an event :  
(a)  $\frac{1}{3}$  (b)  $\frac{3}{5}$  (c)  $\frac{5}{3}$  (d) 1
8. The **length** of the each side of an **equilateral triangle** of **area**  $4\sqrt{3} \text{ cm}^2$ , is :  
(a) 4 cm (b)  $\frac{4}{\sqrt{3}}$  cm (c)  $\frac{\sqrt{3}}{4}$  cm (d) 3 cm
9. What is **mean** of first 10<sup>th</sup> Natural numbers :  
(a) 7.5 (b) 5.5 (c) 8.5 (d) 10.5
10. **Mode** is :  
(a) least frequent value (b) middle most value (c) most frequent value  
(d) none of these

## SECTION - B

❖ Question numbers 11 to 15 carry 2 marks each :

11. The blood groups of 30 students of Class VIII are recorded as follows: A, B, O, O, AB, O, A, O, B, A, O, B, A, O, O, A, AB, O, A, A, O, O, AB, B, A, O, B, A, B, O. Represent this data

in the form of a frequency distribution table. Which is the most common, and which is the rarest, blood group among these students?

12. The record of a weather station shows that out of the past 250 consecutive days, its weather forecasts were correct 175 times.
  - (i) What is the **probability** that on a given day it was correct?
  - (ii) What is the **probability** that it was not correct on a given day?
13. Find the **area** of a **triangle**, two sides of which are 8 cm and 11 cm and the **perimeter** is 32 cm.
14. In a cricket match, a batswoman hits a boundary 6 times out of 30 balls she plays. Find the **probability** that she did not hit a boundary.
15. Find the **area** of a **quadrilateral** ABCD in which AB = 3 cm, BC = 4 cm, CD = 4 cm, DA = 5 cm and AC = 5 cm.

**SECTION - C**

❖ **Question numbers 16 to 20 carry 2 marks each :**

16. 1500 families with 2 children were selected randomly, and the following data were recorded,

<b>Number of girls in a family</b>	2	1	0
<b>Number of families</b>	475	814	211

Compute the probability of a family, chosen at random, having (i) 2 girls (ii) 1 girls (iii) No girl.

17. The following observations have been arranged in ascending order. If the **median** of the data is 63, find the value of x. 29, 32, 48, 50, x, x + 2, 72, 78, 84, 95
18. Given below are the seats won by different political parties in the polling outcome of a state assembly elections:

<b>Political Party</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
<b>Seats won</b>	75	55	37	29	10	37

- (i) Draw a bar graph to represent the polling results.
- (ii) Which political party won the maximum number of seats
19. In a mathematics test given to 15 students, the following marks (out of 100) are recorded: 41, 39, 48, 52, 46, 62, 54, 40, 96, 52, 98, 40, 42, 52, 60  
Find the **mean**, **median** and **mode** of this **data**.
20. A **triangular park** ABC has sides 120m, 80m and 50m (see Fig. 12.7). A gardener **Dhania** has to put a fence all around it and also plant grass inside. How much **area** does she need to plant? Find the **cost** of fencing it with barbed wire at the rate of Rs 20 per **metre** leaving a space 3m wide for a gate on one side.