ALLEN

Data Handling

TEST

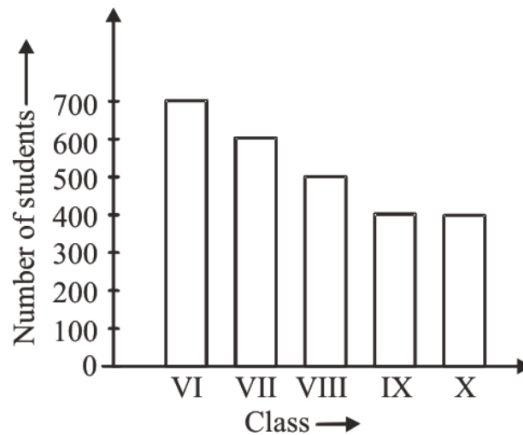**Time - 45 minutes**   **Maximum Marks - 20**

Important Instructions

- This test contains 20 questions.
- Each question has FOUR options (1), (2), (3) and (4). ONLY ONE of these four options are correct.
- For each question, marks will be awarded in one of the following categories.
  Full Marks : +1   : If only correct answer is given.
  Zero Marks : 0   : If no answer is given.
  Negative Marks   : There is no negative marking.

Direction (Q.1 & Q.2)

Look at the bar graph and answer the following questions :

1.   In which classes the number of students are same?

(1) IX, X

(2) VI, VII

(3) VIII, IX

(4) VI, X

2.   What is the total number of students ?

(1) 2600

(2) 2000

(3) 3600

(4) 1600

Direction (Q.3 and Q.4)
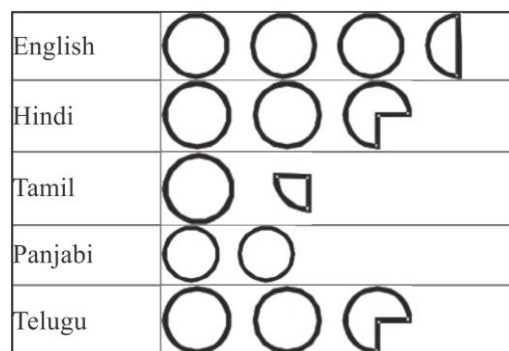
 represents 5 rupees (₹ 5)

Radha

Satish

John

Nirmala

Rashid

Vinay

3. Who gets exactly ₹ 40?

(1) Satish   (2) John   (3) Nirmala   (4) Radha

4. How much money did they get altogether?

(Tell by counting)

(1) 185   (2) 190   (3) 200   (4) None of these

Direction Questions (Q.5 – Q.7)

The given pictograph shows the number of students in a university who speak the following five language: English, Hindi, Tamil, Punjabi, Telugu.
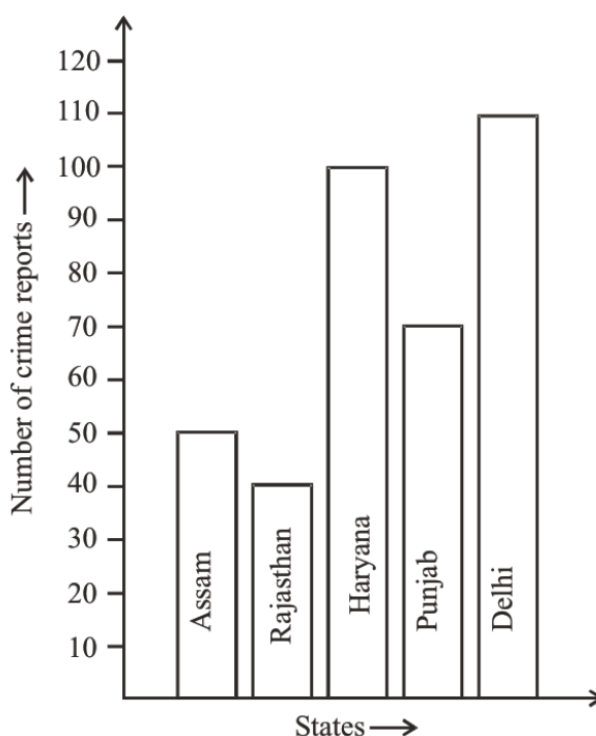

○ represents 100 students

5. How many students speak English?

(1) 400   (2) 350

(3) 325   (4) 300

6. The number of English speaking students is how many more than the number of Hindi speaking students ?

(1) 75   (2) 85

(3) 25   (4) 95

7. How many students speak Tamil?

(1) 10   (2) 125

(3) 275   (4) 115

Direction Questions (Q.8 and Q.9)

The following bar graph shown the data in respect of crimes in five states. Study the chart and answer the following.
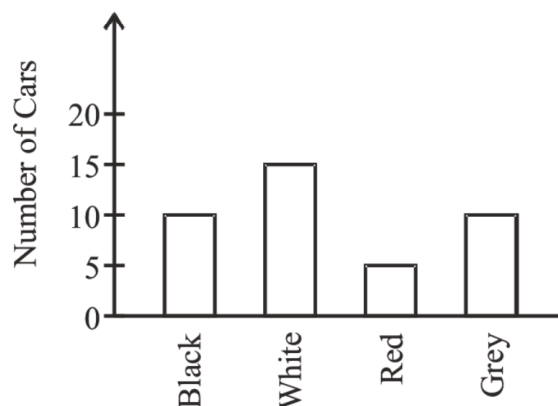

8. Which state has reported the maximum number of crimes?

(1) Punjab   (2) Delhi

(3) Haryana   (4) Assam

9. In all, how many crimes were reported in these states?

(1) 350   (2) 360

(3) 370   (4) 380

Direction Questions (Q.10 and Q.11)

Using the given bar graph, choose the correct option in the questions given below:

Car in the parking lot

10. Which colour had the same number of cars parked ?

(1) Black and Grey

(2) White and Red

(3) White and Black

(4) Grey and White

11. What is the ratio of number of white cars to red cars ?

(1) 5 : 2   (2) 2 : 5

(3) 3 : 1   (4) 1 : 3

Q.12 to Q.20. are multiple choice questions. Each has four options (1), (2), (3) and (4) out of which only one option is correct.

12. The given pictograph shows the number of students in a university who eats the following five fruits : Apples, Oranges, Grapes, guavas, Kiwis

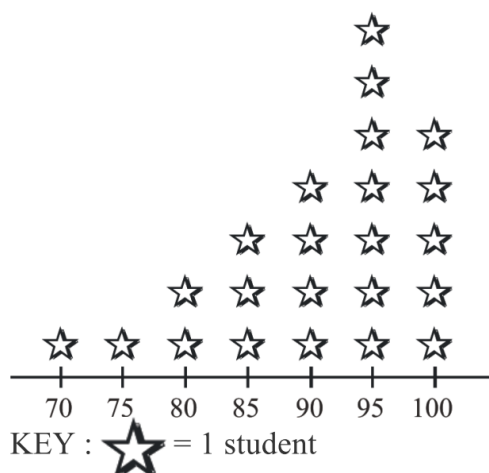**Scale : One ◯ represents 100 students**

How many students eat Apple?

(1) 225   (2) 300

(3) 275   (4) 200

13. The line plot below shows how students scored on last week's maths test.

MATHS TEST SCORES

70   75   80   85   90   95   100

KEY : ☆ = 1 student

How many students scored 95 or higher on the test ?

(1) 5 students   (2) 7 students   (3) 12 students   (4) 16 students

14. The pictograph given below shows how many letters were collected from a post box on each of the days of a certain week.

Monday – ✉ ✉ ✉ ✉ ✉ ✉ ✉
Tuesday – ✉ ✉ ✉ ✉ ✉
Wednesday – ✉ ✉ ✉ ✉
Thursday – ✉ ✉ ✉ ✉ ✉ ✉
Friday – ✉ ✉ ✉ ✉ ✉ ✉ ✉ ✉
Saturday – ✉ ✉ ✉

✉ = 5 letters

How many more letters were collected on Monday than on Saturday?

(1) 20   (2) 10   (3) 15   (4) 5

15. ⇧⇧⇧⇧ Number represented by figures is _____, if each symbol represents 15 Chocolates.

(1) 30   (2) 60   (3) 45   (4) 40

16. In a bar chart, the scale of 1 unit length represents 100 students, then 500 students are represented by a bar of length

(1) 3 units   (2) 4 units   (3) 5 units   (4) 6 units

17. One 'O' represents 30 watches, then 'OOO' will represent

(1) 60   (2) 30   (3) 90   (4) 120

18. In a pictograph, If the symbol '□ ' represents 20 students, then the given picture equivalent to:

□□□□

(1) 40 students   (2) 60 students   (3) 80 students   (4) None

19. ✳ ✳ ✳ ✳ ✳ number represented by figures is ____, if each symbol represents 5 houses.

(1) 25　　　　　　(2) 30　　　　　　(3) 20　　　　　　(4) 35

20. Following are the heights of 10 students of class VI (in mm)

135, 144, 127, 132, 130, 128, 157, 188, 192, 197

The range is:

(1) 65　　　　　　(2) 75　　　　　　(3) 60　　　　　　(4) 70

Test Solutions

Answer Key

Question	1	2	3	4	5	6	7	8	9	10
Answer	**1**	**1**	**1**	**2**	**2**	**1**	**2**	**2**	**3**	**1**
Question	11	12	13	14	15	16	17	18	19	20
Answer	**3**	**3**	**3**	**1**	**2**	**3**	**3**	**3**	**1**	**4**

1. **Option (1)**

In IX and X number of students are same (400)

2. **Option (1)**

700 + 600 + 500 + 400 + 400 = 2600

3. **Option (1)**

Rs. 40 = 8 × 5

Satish gets exactly Rs. 40

4. **Option (2)**

Total = 38 Coins

= 38 × 5

= 190

5. **Option (2)**

$3 \times \dfrac{1}{2}$ symbols = English Language

$3 \times 100 + \dfrac{1}{2} \times 100 = 350$

6. **Option (1)**

Hindi speaking = $2\dfrac{3}{4}$ symbols

$= 2 \times 100 + \dfrac{3}{4} \times 100$

= 275

Difference = 350 – 275 = 75

7. **Option (2)**

Tamil speaking = $1\dfrac{1}{4}$ symbols

$= 1 \times 100 + \dfrac{1}{4} \times 100 = 125$

8. **Option (2)**

Delhi has reported the maximum number of crimes = 110.

9. **Option (3)**

Total crimes = 50 + 40 + 100 + 70 +110

= 370

10. **Option (1)**

Black and grey are both 10 in number.

11. **Option (3)**

$\dfrac{\text{White Cars}}{\text{Red Cars}} = \dfrac{15}{5} = 3 : 1$

12. **Option (3)**

$2 + \dfrac{3}{4}$ symbol = Apple

$2 \times 100 + \dfrac{3}{4} \times 100 = 275$

13. **Option (3)**

Students scored 95 or higher on the test = 7 + 5 = 12

14. **Option (1)**

letters collected on Monday = 7 × 5 = 35

letters collected on Saturday = 3 × 5 = 15

Difference = 35 – 15 = 20

15. **Option (2)**

= 4 × 15 Chocolates

= 60

16. **Option (3)**

1 unit = 100 students

500 students = 5 × 1 units

= 5 units

17. **Option (3)**

3 × 30 = 90

18. **Option (3)**

4 × 20 = 80 students

19. **Option (1)**

5 × 5 houses = 25 houses

20. **Option (4)**

The difference between maximum and minimum heights is (197 – 127) mm = 70