



# SHIKSHA CLASSES

Sub : Maths  
Class : VIII(CBSE)

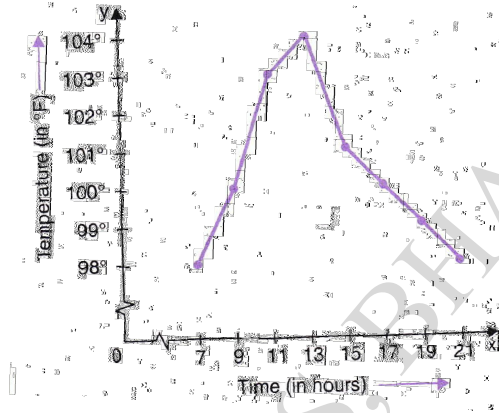
Question Paper  
13: Introduction to Graphs

Total Marks : 30  
Time : 1 Hour

## Section A ( Each 1 Mark )

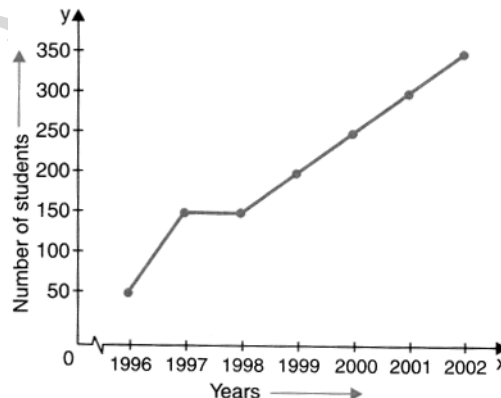
Select the most appropriate answer from the given options (MCQ'S - Q.1 to Q.5)

Observe the following temperature time graph and answer the related questions:



- Q.1 : 103° F temperature is at time  
a) 11 hours      b) 13 hours      c) 15 hours      d) 21 hours
- Q.2 : What is the rise in temperature from 11 hours to 13 hours?  
a) 1° F      b) 2° F      c) 4° F      d) 3° F
- Q.3 : What is the fall in temperature from 13 hours to 21 hours?  
a) 2° F      b) 3° F      c) 4° F      d) 6° F

Observe the following temperature time graph and answer the related questions:



- a) 200                      b) 250                      c) 300                      d) 350

Q.5 : In which year did the maximum number of students appear?

- a) 2002                      b) 2000                      c) 2001                      d) 1999

**Fill in the blank. (Q.6 to Q.7)**

Q.6 : A point which lies on both the axes is \_\_\_\_\_.

Q.7 : The x-coordinate of every point lying on the y-axis is \_\_\_\_\_.

**Write whether the following statements are True or False. (Q.8 to Q.9)**

Q.8 : The x-coordinate of a point is its distance from x-axis.

Q.9 : The relation between dependent variable and independent variable is shown through a graph.

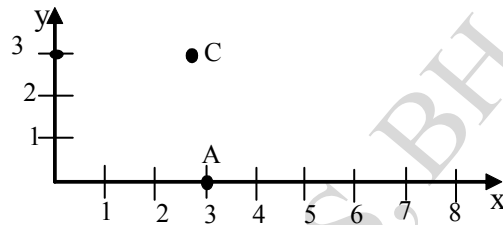
**Section B (Each 2 Marks )**

Q.10 : What will you get after joining the points  $(-1, -1)$ ,  $(0, 0)$  and  $(3, 3)$ ?

**OR**

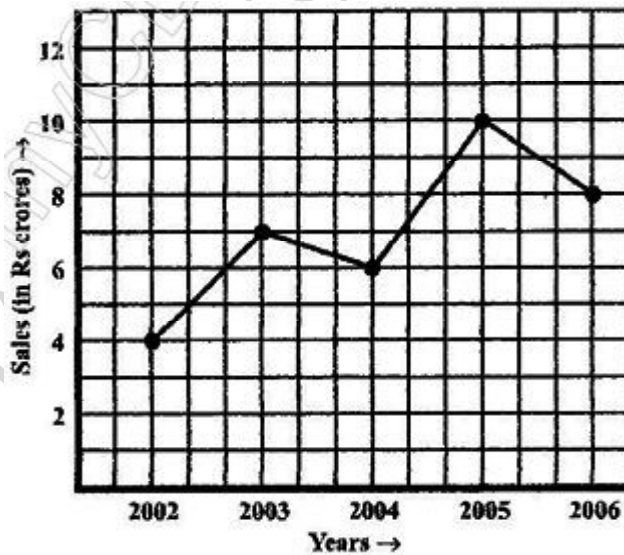
What is the distance of the point  $(3, 4)$  from x-axis?

Q.11 : In the following graph, which letter indicates the point  $(3, 0)$ ?



**Section C (3 Marks Each)**

Q.12 : The following line graph shows the yearly sales figures for a manufacturing company.



- a) What were the sales in i) 2002                      ii) 2006  
b) Compute the difference between the sales in 2002 and 2006.  
c) In which year was there the greatest difference between the sales as compared to its previous

year?

**OR**

Use the tables below to draw linear graphs.

a) The number of days a hill side city receive snow in different years.

Year	2003	2004	2005	2006
Days	8	10	5	12

Q.13 : Distance travelled by a car

Time (in hours)	6 a.m.	7 a.m.	8 a.m.	9 a.m.
Distances (in km)	40	80	120	160

- i) How much distance did the car cover during the period 7.30 a.m. to 8 a.m.?
- ii) What was the time when the car had covered a distance of 100 km since its start?

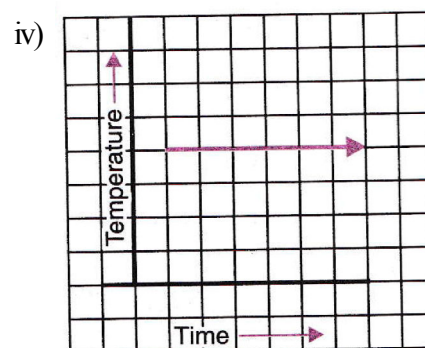
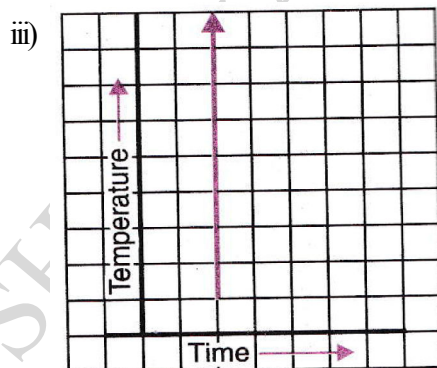
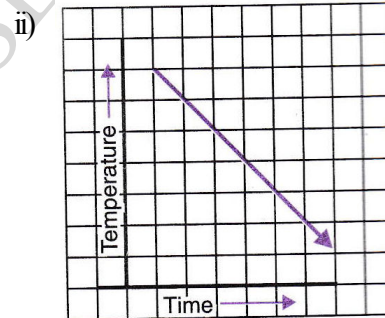
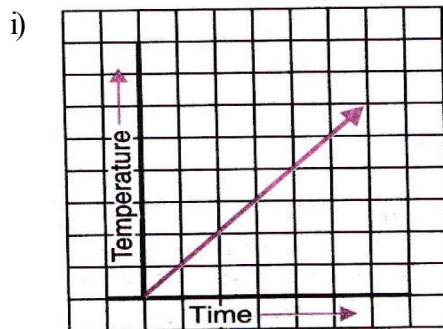
Q.14 : Draw a graph for the following :

Side of square (in cm)	2	3	3.5	5	6
Perimeter (in cm)	8	12	14	20	24

Is it a linear graph?

**Section D (Each 4 Marks )**

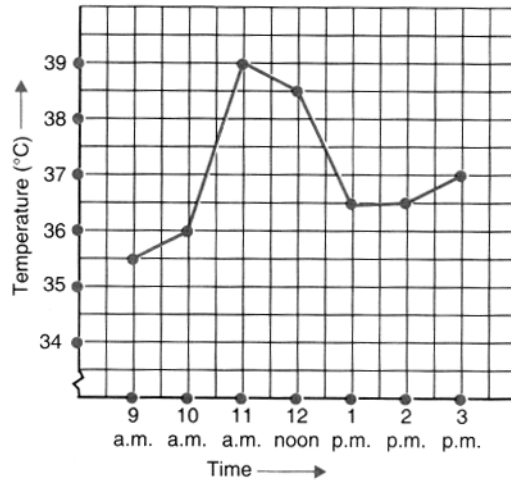
Q.15 : Can there be a time-temperature graph as follows? Justify your answer.



OR

The following graph shows the temperature of a patient in hospital, recorded every hour.

- What was the patient's temperature at 1 p.m.?
- When was the patient's temperature  $38.5^{\circ}\text{C}$ ?
- The patient's temperature was the same two times during the period given. What were these two times?
- What was the temperature at 1.30 p.m.? How did you arrive at your answer?



Q.16 : Interest on deposits for a year

Deposit (in ₹)	1000	2000	3000	4000	5000
Simple Interest (in ₹)	80	160	240	320	400

- Does the graph pass through the origin?
- Use the graph to find the interest on Rs. 2500 for a year.
- To get an interest of Rs. 280 per year, how much money should be deposited?

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