



ANANDALAYA
PERIODIC TEST - 2
Class – VII

Subject: Mathematics
Date : 25/09/2019

M.M: 50
Time: 2 hours

General Instructions:

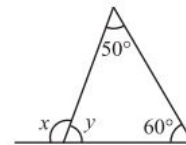
1. All questions are compulsory.
2. This question paper contains 22 questions.
3. Questions 1 – 7 in Section A are very short-answer type questions carrying 1 mark each.
4. Questions 8 – 13 in Section B are short-answer type questions carrying 2 marks each.
5. Questions 14 – 18 in Section C are short -answer type questions carrying 3 marks each.
6. Questions 19 – 22 in Section D are long-answer type questions carrying 4 marks each.

SECTION-A

1. Find the mean of first six whole numbers (1)
2. Write the following equations in statement forms: $7p - 3 = 18$ (1)
3. Find the Supplement of 83° . (1)
4. Write the name of the point of intersection of medians of a triangle. (1)
5. Find the value x if x and y are vertically opposite angles and $y = 73^\circ$? (1)
6. Find the value of variable x in the equation $3x - 2 = 10$ (1)
7. Write the name of hypotenuse in the triangle PQR right angled at $\angle Q$. (1)

SECTION-B

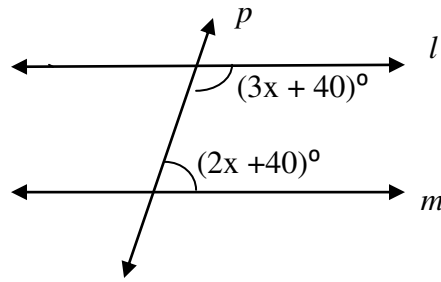
8. Set up an equation for the following taking variable y :
Irfan says that he has 7 marbles more than five times the marbles Parmit has . Irfan and Parmit together have 43 marbles. (2)
9. Two angles are in the ratio 4:5 and forming linear pair. Find the angles. (2)
10. Find the value of the unknown x and y from the adjacent diagram. Write the answer with reason. (2)



11. Solve the following equations: (2)
(i) $\frac{5z}{3} = 10$ (ii) $7y - 6 = 36$
12. The weights(in kg.) of 15 students of a class are:
38, 42, 35, 37, 45, 50, 32, 43, 43, 40, 36, 38, 43, 38, 47
Find the median and mode of this data. (2)
13. The lengths of two sides of a triangle are 7 cm and 11 cm .Between what two measures should the length of the third side fall? (2)

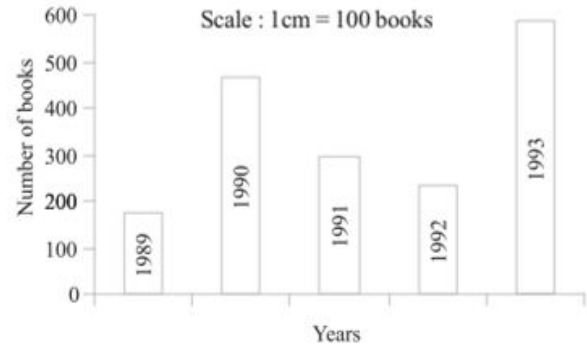
SECTION-C

14. In the adjoining figure, $l \parallel m$ and p is transversal, find the value of x and the angles from the figure. (3)



15. The sum of Laxmi's age and her father's age is 64. He is 4 years older than three times Laxmi's age. What is Laxmi's age? (3)

16. Read the bar graph which shows the number of books sold by a bookstore during five consecutive years and answer the following questions. (3)



- (i) About how many books were sold in 1991 and 1992?
(ii) Find the year in which about 475 books sold? About 175 books sold?
(iii) Name the years in which fewer than 300 books were sold.

17. Rahul scored thrice as many runs as Sachin. Together their runs falls 4 short of double century. How many runs did each one score? (3)

18. The diagonals of a rhombus are of measure 16 cm and 30 cm. Find its perimeter. (3)

SECTION-D

19. The following table shows the career choices by a certain number of boys and girls. (4)

Career	Pilots	Doctors	Engineers	Fashion Designers	Management
Number of girls	350	970	330	750	700
Number of boys	500	550	750	300	1000

Draw a double bar graph of this data choosing an appropriate scale.

20. Solve the following equations: (4)

- (i) $-7 + 3(4x - 1) = 50$
(ii) $26 = 8 + 3(2z - 2)$

21. A ladder 25 m long reaches a window which is 7 m above the ground. Keeping its foot at the same point, the ladder is turned to the other side of the street to reach a window at a height of 24 m. Find the width of the street. (4)

22. In the adjoining figure, $a \parallel b$ and c is a transversal such the values of $\angle 1$ and $\angle 2$ are in the ratio 3:7. Find the measure of $\angle 1$, $\angle 2$, $\angle 5$, $\angle 6$ and $\angle 8$. (4)

