

## SUBJECT : MATHEMATICS

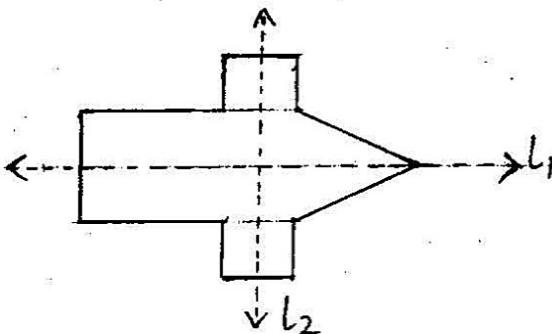
Time : 3 hrs.

M.M. : 80

## General Instructions :

- (i) All questions are compulsory.  
 (ii) Read all questions very carefully.  
 (iii) Questions 1 to 10 carry one mark each.  
 (iv) Questions 11 to 18 carry 2 marks each.  
 (v) Questions 19 to 28 carry 3 marks each.  
 (vi) Questions 29 to 34 carry 4 marks each.

- Q1. Write the successor of 6,58,239.  
 Q2. How many lines can be drawn passing through one point?  
 Q3. Find the equivalent fraction of  $\frac{2}{7}$  having denominator 56.  
 Q4. Which is the smallest whole number?  
 Q5. If A, B, C are three points on a line such that  $AB = 5\text{cm}$ ,  $BC = 3\text{cm}$  and  $AC = 8\text{cm}$ , which one of them lies between the other two?  
 Q6. Write the additive identity of a whole number.  
 Q7. Express  $\frac{15}{7}$  as a mixed fraction.  
 Q8. For the given figure, which one is the mirror line  $l_1$  or  $l_2$



(1)



- Q21. Three boys step off together from the same spot. Their steps measure 63cm, 70cm and 77cm respectively. What is the minimum distance each should cover so that all can cover the distance in complete steps?
- Q22. Draw a circle with centre O and any radius and mark :
- a sector
  - a segment
  - a point in its exterior
- Q23. In a class A of 35 students, 30 passed in first class; in another class B of 42 students, 36 passed in first class. In which class was a greater fraction of students getting first class?
- Q24. Estimate the difference :  
5631 - 385 using general rule.
- Q25. Name the type of following triangles :
- $\triangle PQR$  such that  $PQ = 6.5$  cm,  $QR = 5$  cm and  $RP = 4$ cm
  - $\triangle XYZ$  such that  $XY = YZ = XZ = 4$  cm
  - $\triangle ABC$  with  $m\angle B = 90^\circ$  and  $AB = BC$
- Q26. Find HCF of 14, 44 and 38.
- Q27. On a graph paper, draw the following :
- A quadrilateral with both horizontal and vertical lines of symmetry
  - A triangle with exactly two lines of symmetry
- Q28. Write the number of lines of symmetry of :
- Circle
  - Scalene Triangle
  - Rhombus
- Q29. Find the answer by suitable rearrangement :
- $2 \times 275 \times 50$
  - $239 + 600 + 161$
- Q30. Kamal takes  $2\frac{1}{3}$  minutes to complete a 100m race. Bhavya takes  $\frac{5}{4}$  minutes to do the same. Who takes less time and by what fraction?

Q31. Draw a quadrilateral ABCD. Name :

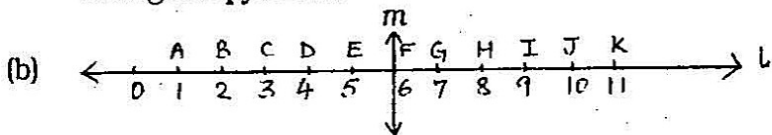
- (i) two pairs of opposite sides
- (ii) two pairs of opposite angles
- (iii) two pairs of adjacent sides
- (iv) two pairs of adjacent angles

Q32. Find the least number which when divided by 3, 18 and 21 leave remainder 7 in each case.

Q33. Which direction will you face if you start facing

- (i) west and make  $\frac{3}{4}$  of a revolution clockwise?
- (ii) east and make  $\frac{1}{2}$  of a revolution anti-clockwise?
- (iii) north and make  $1\frac{1}{2}$  of a revolution clockwise?
- (iv) south and make one full revolution?

Q34. (a) Write the number of faces, edges and corners of a triangular pyramid.



Study the line  $l$  is  $\perp$  to line  $m$

- (i) is  $BF = FJ$
- (ii) Are these true?
  - (a)  $AD > IK$
  - (b)  $CE = GI$
  - (c)  $DF > GK$