

SUBJECT : MATHEMATICS**Time : 3 hrs.****MM : 80****General Instructions :**

- (i) All questions are compulsory.**
- (ii) Read all questions very carefully.**
- (iii) Questions 1 to 10 carry 1 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 predecessor of the smallest 6 digit number

Q2. Write the eighth multiple of 9.

Q3. How many lines can pass through

- (a) one given point? (b) two given points?

Q4. Which is the smallest whole number?

Q5. Express $\frac{32}{5}$ as a mixed fraction.

Q6. What geometrical shape is

- (a) A ball (b) A blackboard duster.

Q7. Write 45 in Roman Numerals.

Q8. Use the given digits 9, 8, 7, 0 and 6 without repetition and make the greatest 5 digit number.

Q9. Write the number of lines of symmetry of

- (a) Isosceles Triangle (b) Square.

Q10. Draw a number line and locate _____ on it.

(1)

Q11. Express 36 as the sum of two odd primes.

Q12. Fill in the blanks :

(i) 1 crore = _____ hundreds

(ii) 1 thousand = _____ tens.

Q13. Draw a quadrilateral ABCD. State,

- (a) two pairs of opposite angles.

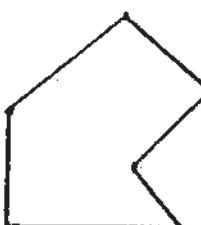
- (b) two pairs of adjacent sides.

Q14. What fraction of a day is 4 hours?

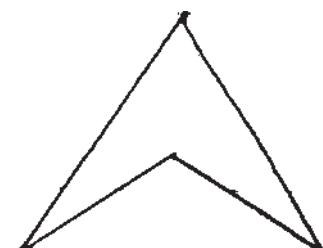
Q15. The school canteen charges ₹ 20 for lunch and ₹ 4 for milk for each day. How much money do you spend in 5 days on these things?

Q16. Name the polygon :

$$\frac{1}{9}, \frac{4}{9}$$



(a)



(b)

Q17. Insert commas suitably and write the number name according to Indian System of numeration : 7562938

Q18. Consider the letters of English alphabets. List among them the letters which have no lines of symmetry.

Q19. Write a digit in the blank space so that the number formed is divisible by 11 :

$$2 \underline{\quad} 3 4 5 9$$

Q20. Draw any circle. Mark and name :

- (i) its centre and radius (ii) a sector

- (iii) a segment

(2)

Q21. Rahul's house is km from his school. He walked some

distance and then took a bus for km to reach the school.

How far did he walk?

Q22. Name the types of following triangles :

- (i) $\triangle ABC$ with $m\angle B = 90^\circ$.
- (ii) $\triangle PQR$ with $m\angle P = 30^\circ$, $m\angle Q = 70^\circ$ and $m\angle R = 80^\circ$.
- (iii) $\angle XYZ$ such that $XY = YZ = ZX = 5 \text{ cm}$.

Q23. Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens):

$1,05,263 - 38,179$

Q24. On a graph paper, draw the following :

- (i) A quadrilateral with both horizontal and vertical lines of symmetry.
- (ii) A hexagon with exactly two lines of symmetry.

Q25. Determine the smallest 3 digit number which is exactly divisible by 6, 8 and 12.

Q26. Find the number of right angled turned through by the hour hand of a clock, when it goes from :

- (a) 12 to 6
- (b) 4 to 7

Q27. Find the product by suitable rearrangement :

$$225 \times 459 \times 4$$

Q28. Draw two angles such that they have :

- (a) three points in common.
- (b) one ray in common.

Q29. Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find the maximum capacity of a

container that can measure the diesel of the three containers exact number of times.

Q30. Solve :

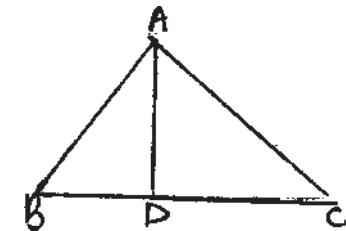
(i)

- (ii) Is equal to ?

Q31. (a) Identify three triangles in the figure.

(b) Write the names of seven angles.

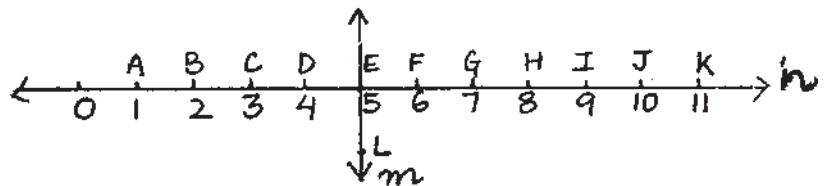
(c) Write the names of six line segments.



Q32. To stitch a shirt, 2m 25cm cloth is needed. Out of 50m cloth, how many shirts can be stitched and how much cloth will remain?

~~Q31~~ ~~Q32~~ Find using distributive property : 5326×25

Q34. Study the diagram. The line n is perpendicular to line m.



- (a) Is $BE = EH$?

(b) Identify any two line segments for which EL is perpendicular bisector.

- (c) Are these true?

- (i) $AB = IJ$
- (ii) $AD = FH$
- (iii) $BD > FG$