SUBJECT : MATHS

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. Place the commas correctly and write the numeral for - Fifty nine crore five lakh thirty two thousand seventy.

Q2. Write the first five multiples of 12.

Q3. Which direction will you face if you start facing west and make ½ of a revolution anti-clockwise?

Q4. Write the Roman Numeral for 97.

Q5. Draw a circle and mark -

   (a)   a radius   (b)   a point in its interior

Q6. How many lines can be drawn passing through one given point?

Q7. Draw a number line and locate $\frac{2}{7}$ on it.

Q8. Write the smallest natural number.

Q9. Express $\frac{37}{5}$ as a mixed fraction.

Q10. What is the greatest prime number between 1 and 10?

Q11. Classify the following curves as open or closed

(a)   (b)

Q12. Using divisibility test, determine whether 60942 is divisible by 6 or not.

Q13. Find using distributive property : 4325 × 105

Q14. Zaheer brought $2\frac{1}{4}$ kg of apples. He ate $\frac{3}{4}$ kg. How many kg of apples are left?

Q15. Draw a figure and label suitably in each of the following cases -

   (a)   Point Q lies on $\overline{XY}$.

   (b) $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ intersect at R.

Q16. Estimate the difference using general rule :

6781 – 1289

Q17. Name the types of following triangles -

   (a) ΔPQR with m$\angle$P = 40°, m$\angle$Q = 60° and m$\angle$R = 80°

   (b) ΔXYZ with XY = 9.2 cm, YZ = 5 cm and ZX = 5 cm

Q18. Arun sold 36 litres of milk on Saturday and 64 litres of milk on Sunday. If the milk costs ₹ 21 per litre, find out how much money is earned by Arun on both days.
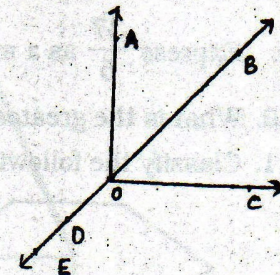
Q19. Simplify : $\frac{3}{5} - \frac{7}{20}$

Q20. Where will the hand of a clock stop if it :

   (a)   starts at 7 and turns through one right angle.

   (b)   starts at 3 and makes $\frac{1}{2}$ of a revolution clockwise.

Q21. Use the figure to name :

   (a)   4 rays

   (b)   2 line segments

Q22. Find the H.C.F. of 91, 112 and 49.

Q23. Find the answer by suitable rearrangement :

(a) $777 + 13518 + 223$

(b) $8 \times 693 \times 125$

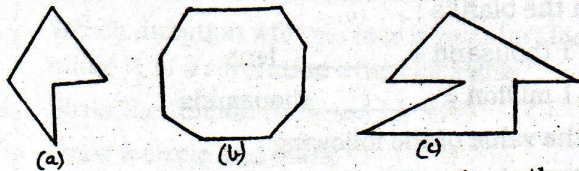Q24. Find the equivalent fraction of $\dfrac{6}{11}$ having :

(a)   numerator 36   (b)   denominator 44

(c)   numerator 60

Q25. A student multiplied 2568 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer?

Q26. Express each of the following numbers as the sum of three odd primes :

(a)   21   (b)   53

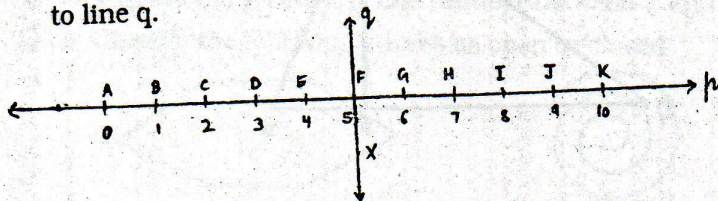Q27. Name each polygon :

(a)   (b)   (c)

Q28. (a)   Draw two angles such that they have three points in common.

(b)   Write the successor of 1982899.

Q29. (a)   Mini travelled $1\dfrac{3}{7}$ km by bus and $\dfrac{2}{7}$ km by walking to reach home. How much total distance did she cover to reach home?

(b)   Mention one importance of walking.

Q30. Study the following diagram. The line p is perpendicular to line q.

(a)   Is CF = FI?

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

(c)   Are these true?

(i)   BD > HI   (ii)   AE < GI

Q31. Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens)

$289 + 1877 + 612$

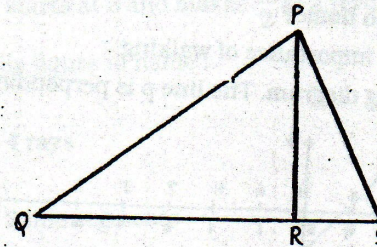Q32. Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.

Q33. (a)   Fill in the blanks :

(i)   1 thousand = _____ tens

(ii)   1 million = _____ thousands

(b)   Find the value of the following :

$24598 \times 159 - 24598 \times 59$

Q34. From the figure -

(a)   Name three triangles

(b)   Write the names of any three angles.

(c)   Which two triangles have $\angle Q$ as common?

(3)   (4)