SWAMINARAYAN VIDYAPITH
CLASS VII

Model Test paper – 2022-23   Date:

Total Max.Marks:25   MATHEMATICS   Time: 30 minutes

Instructions:
Read the questions carefully before you start writing.
Attempt all the questions
Use the back portion of the paper for rough work

Q-1. Fill in the blanks: [5]

a) The sum of $\frac{1}{4}$ and $\frac{3}{4}$ is _____.

b) The greatest negative integer is _____.

c) The sum of the smallest natural number and the even prime number is _____.

d) There are _____ lines of symmetry in a rectangle.

e) $(-42) \div$ ____ $= 6$

Q-2. State whether each of the following statements is TRUE or FALSE   [4]

a) $\frac{155}{9} = 12\frac{7}{9}$ [   ]

b) The sum of interior angles of a triangle is always 180°.   [   ]

c) All numbers divisible by 6 are divisible by 3.   [   ]

d) The fraction $\frac{45}{135}$ is same as $\frac{1}{3}$.   [   ]

Q-3. Do as directed   [8x2=16]

a) Solve the following by using an **appropriate property**:
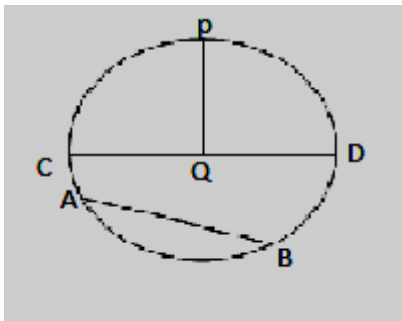
i) $32 \times 99 + 1 \times 32$ ii) $87 + 25 + 75 + 13$

b) The present age of the daughter is half of her mother; the difference of their ages is 26. What will be the present age of the mother?

c) Identify and name the following from the adjoining figure:

(i)   The longest chord: _____

(ii)   A radius : _____

(iii)   A sector: _____

(iv)   A line segment perpendicular on CD: _____

d)   (i) A pipe is cut in the ratio of 2:3, if the smaller part is 20 cm find the other part.

        (ii) Mita travels 20 km 50 m every day. Out of this she travels 15 km 200m by train, and the rest of the distance by car. How much distance does she travel by car daily?

e) The cost price of an article is Rs. 1500 and it sold for Rs. 1290, find the loss percent.

f) If the perimeter of a square is 96 cm. Find its area.

g) Find the highest common factor (HCF) of **tenth multiple of 9** and **ninth multiple of 12**.

h) Compute: (i) $\dfrac{14}{30} - \dfrac{7}{15}$

(ii) $\dfrac{1}{3} + \dfrac{9}{27}$

(iii) $49 + (-15) + 66$

(iv) $(-71) \times (-100)$