

Application no: _____

Name: _____

SWAMINARAYAN VIDYAPITH
CLASS VIII

Model Test Paper – 2021-22

Date: _____

MATHEMATICS

Total Max.Marks:25

Time: 30 minutes

Instructions:

Read the questions carefully before you start writing.

Attempt all the questions

Use the back portion of the paper for calculations

Q-1 Fill in the blanks

[5]

- a) The smallest positive integer is _____.
- b) If $\frac{5}{2}x = \frac{25}{4}$ then $x =$ _____.
- c) A triangle has _____ medians.
- d) When a die is thrown, the probability of getting 2 is _____.
- e) $3^0 + x^0 + 1 =$ _____.

Q-2 State whether each of the following statements is True or False

[5]

- a) All integers and fractions are rational numbers. []
- b) Area of square = 4 X Side. []
- c) Congruent objects are exact copies of one another. []
- d) A right angled triangle has at least two acute angles. []
- e) A mean of the given data is always one of the numbers. []

Q-3 Choose and tick $\sqrt{\quad}$ the correct alternative.

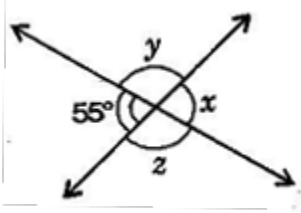
[5]

- a) The circumference of a circular sheet is 44 cm. What will be its radius?
(i) 7 (ii) 22 (iii) 11 (iv) 88
- b) If $a=3$ and $b=2$ then the value of $(10a-5b)$ is
(i) 25 (ii) 20 (iii) 10 (iv) 17
- c) The mean of first ten whole numbers is
(i) 5 (ii) 4.5 (iii) 5.5 (iv) 4
- d) Find the value of $\left((2)^3\right)^2$
(i) 128 (ii) 4 (iii) 32 (iv) 64
- e) $0.00317 =$ _____ $\div 100000$
(i) 317 (ii) 3170 (iii) 31.7 (iv) 31700

Q-4 Do as directed.

[5x2=10]

(a) Find the unknown angles in the following figures.



(b)(i) Find $5\frac{3}{2} + 2$

(ii) Find $\frac{49}{4} \div \frac{7}{16}$

(c) Subtract $(4pq - 5q^2 - 3p^2)$ from $(5p^2 + 3q^2 - pq)$.

d) Simplify $\frac{3^8 \times b^9}{(9^4) \times b^5}$

e) The perimeter of a rectangle is 50 cm and the length is 10cm. Find the breath and area of the rectangle.