

Edufever.Com Test Series

Class: - VIII

Full Marks: 75

Subject: Mathematics

Time: 3 Hr

All questions are compulsory

SECTION-A

1. Choose the correct answer

1x5=5

a. The value of $\left(\frac{2}{5}\right)^{-3}$ is

i. $\frac{8}{125}$	ii. $\frac{25}{4}$
iii. $\frac{125}{8}$	iv. $-\frac{2}{5}$

b. The value of $(-2)^{-5}$ is

i. -32	ii. $-\frac{1}{32}$
iii. 32	iv. $\frac{1}{32}$

c. $(2^{-5} \div 2^{-2}) = ?$

i. $\frac{1}{128}$	ii. $-\frac{1}{128}$
iii. $-\frac{1}{8}$	iv. $\frac{1}{8}$

d. $\left(\frac{2}{3}\right)^0 = ?$

i. $\frac{3}{2}$	ii. $\frac{2}{3}$
iii. 1	iv. 0

e. $\left(-\frac{5}{3}\right)^{-1} = ?$

i. $\frac{5}{3}$	ii. $\frac{3}{5}$
iii. $-\frac{3}{5}$	iv. none of these

2. Fill in the blanks:

1x5=5

- The square of 0 is _____
- The square of an even number is _____
- The square of an odd number is _____
- The square of a proper fraction is _____
- N^2 = the sum of first n _____ natural number.

3. Write T for True and F for False statements:

1x5=5

- The number of digit in a perfect square is even.
- The square of a prime number is _____
- The sum of two perfect square is a perfect square
- The difference of 2 perfect squares is a perfect square.
- The product of 2 perfect squares is a perfect square.

SECTION-B

4. Very short answer type questions:-

3x10=30

- Evaluate 4^{-3} .
- Find the value of $(2^0 + 3^{-1}) \times 3^2$
- Find the largest number of two digits which is a perfect square?
- Evaluate : $(38)^2 - (37)^2$
- Evaluate $\sqrt{576}$
- Evaluate $\sqrt{42.25}$
- Evaluate $\sqrt{3}$ upto two places of decimals.

- h. Evaluate $\sqrt{2\frac{1}{4}}$
- i. What number should be added to -1 so as to get $\frac{5}{7}$
- j. Find the product of $\frac{3}{5} \times -\frac{7}{8}$

SECTION-C

5. Solve any six questions:

6x5=30

- i. There are 216 workers in a factory s per list given below.

Cadre	Laborer	Machine	Fitter	Supervisor	clerk
No. Of Workers	75	60	36	27	18

Represent the above data by pie chart.

- ii. The number of scooter produced in a factory during five consecutive weeks is given below:

Week	First	Second	Third	Fourth	Fifth
No. Of scooter produced	3200	5200	4240	3680	5760

Draw a bar graph representing the above data.

- iii. Construct a quadrilateral ABCD in which AB=4.8 cm, BC= 4.3 cm, CD = 3.6cm and 4.2 cm and diagonal BC = 6cm.
- iv. Prove that any two adjacent angle of a parallelogram are supplementary.
- v. Find the number of side of a regular polygon whose exterior angle measure 45° .
- vi. Find the least number which must be subtracted from 2509 to make it a perfect square?
- vii. The area of a square field is 60025m^2 . A man cycle along its boundary at 18k/h in how much time will he returns to the starting point.
- viii. Find the square of 39 by using the diagonal method.

