Chapter: 3

Q.1   Choose the correct alternative.   **(4)**

1) Cube of negative number is ....

    a.   positive
    b.   negative
    c.   either positive or negative
    d.   cannot be predicted

2)

$$5^7 \div 5^9 = 5^{\square}$$

    a. 0   b. 2   c. - 2   d. 1

3) Cube of cube root of 8.

    a. 8^3 b. $8^{3/3}$ c. 8^1 d. Both b and c.

5) When a number as multiplied by itself three times the product so obtained is called .... of that number.

    a. cube   b. square   c. cube root   d. square root

Q.2   Answer the following questions   **(4)**

1) Find the cube root of the following.
1000000

2) Express the following numbers in index form
Fifth root of 13

3) Find the cube of the following numbers.
0.002

4) Write in the form of nth root of 'a' in each of the following.

$$(55)^{1/4}$$

Q.3   Attempt the following questions. (Any three)   **(6)**

1) Complete the following table

Sr. No.	Number	Power of the root	Root of the power
1	$(225)^{3/2}$	....	....

2) Simplify

$$\sqrt[3]{\frac{15625}{1000000}}$$

3) Find the cube root of the following numbers.
8000

4) Find the cube root of the following numbers.

-2744

5) Complete the following table

Sr. No.	Number	Power of the root	Root of the power
1	$(45)^{4/5}$	....	....

Q.4 **Solve the following questions. (Any two)**   **(6)**

1) Simply

$$\sqrt[3]{\frac{27}{125}}$$

4) Simplify

$$\sqrt[3]{\frac{16}{54}}$$

3) Simplify

If $\sqrt[3]{729} = 9$ then $\sqrt[3]{0.000729} = ?$