DELHI PUBLIC SCHOOL, JAMMU
Session: 2022 - 23
Assignment-1

Class- VIII
MM: 20
Subject – Mathematics
Topic – Square and Square roots & exponents and powers

Q1. Choose the correct answer from the given options.

(i) How many natural numbers lie between 9^2 and 10^2?
a) 17
b) 18
c) 19
d) 20

(ii) 2 × 2 × 2 × 2 × 2 is equal to
(a) 2^4
(b) 2^3
(c) 2^2
(d) 2^5

(2 marks)

Q2. Find the squares of:
(i) –37
(ii) –917

(2 marks)

Q3. Evaluate
  $a^2 \times a^3 \times a^{-5}$

(2 marks)

Q4. Find the square of 79 and 34 by column method

(3 marks)

Q5. Find the value of

(i) $\dfrac{8^{-1} \times 5^3}{2^{-4}}$ (ii) $(5^{-1} \times 2^{-1}) \times 6^{-1}$

(3 marks)

Q6. Find the square of 67 and 129 by diagonal method
(4 marks)

<u>Case study question</u>

Q7. A farmer has two fields one is in the shape of rectangle with dimensions 123.8m and 68.9m and a square field fo side 97.6m.

(i) Express the area of two fields in standard form.
(ii) Which field has greater area. Express it in standard form.   (4 marks)