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Class 8 Mathematics - Question Paper

Chapters:

- 1. A Square and a Cube
- 2. Power Play Maximum Marks: 30 Time: 1½ hours

Section A - Very Short Answer Questions (1 mark each)

- 1. Write the next two perfect squares after 2922 that end with digit 1.
- 2. If 1936 is a perfect square, find its square root without prime factorisation.
- 3. Express the following in exponential form: $7 \times 7 \times 7 \times 7 \times 7$.
- 4. Find the value of 10^{-3} in fractional form.
- 5. Which of the following numbers is **not** a perfect cube? 27, 125, 216, 100.

Section B - Short Answer Questions (2 marks each)

- 6. The area of a square park is 441 m². Find the length of its side.
- 7. Write the prime factorisation of 32400 and express it in exponential form.
- 8. If $4^5 \div 4^2 = 4^n$, find the value of n.
- 9. Using the difference of consecutive squares, find 37^2 if 36^2 = 1296.
- 10. Which numbers between 1 and 100 will remain open in the locker puzzle?

Section C - Application-Based Questions (3 marks each)

- 11. Write 70,04,00,00,000 in scientific notation.
- 12. A cube has volume 2197 cm³. Find the length of its edge.
- 13. A pond gets completely covered with lotuses in 30 days due to doubling every day. On which day will it be 1/8th full?
- 14. Find the smallest square number divisible by 4, 9, and 10.
- 15. If $p^4 \times p^6 = p^k$, find k and also write $(p^4)^3$ in exponential form.

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