

+1.0 marks

Section 1 - A

15 marks
15 questions

1. Find the square of 37:
 A. 1456 B. 1236 C. 1369 D. 1396
2. Find the square of 115.
 A. 12225 B. 13225 C. 13522 D. 13255
3. What is the square of 8?
 A. 64 B. 72 C. 48 D. 54
4. Evaluate $\sqrt{\frac{64}{225}}$.
 A. $\frac{8}{15}$ B. $\frac{11}{15}$ C. $\frac{7}{15}$ D. $\frac{13}{15}$
5. The square root of 64009 is:
 A. 253 B. 2634 C. 363 D. 803
6. What is the square root of 1.44?
 A. 2.5 B. 1.8 C. 1.5 D. 1.2
7. A General wishes to draw up his 7500 soldiers in the form of a square. After arranging, he found out that some of them are left out. How many soldiers were left out?
 A. 110 B. 100 C. 104 D. 150
8. What is the least number that should be subtracted 1385 to make it a perfect square?
 A. 37 B. 16 C. 11 D. 18
9. Find the square root of 9604 using the prime factorisation method.
 A. 74 B. 84 C. 88 D. 98

10. Find the largest perfect square factor of 729.
- A. 29 B. 33 C. 31 D. 729
11. The last digit of a perfect square can never be:
- A. 1 B. 3 C. 5 D. 9
12. Which of the following numbers are not perfect squares?
- A. 64000 B. 89722
C. 222000 D. All of the above
13. Using the given pattern, find the missing numbers:
- $$1^2 + 2^2 + 2^2 = 3^2$$
- $$2^2 + 3^2 + 6^2 = 7^2$$
- $$3^2 + 4^2 + 12^2 = 13^2$$
- $$4^2 + 5^2 + 20^2 = 21^2$$
- $$5^2 + 6^2 + 30^2 = 31^2$$
- $$6^2 + 7^2 + \boxed{2} = \boxed{2}$$
- A. 42,43 B. 43,45 C. 40,46 D. None
14. Find the square of the number 85. Choose the correct answer from the options below:
- (A) 6425
(B) 7025
(C) 7225
(D) 8125
- A. 6425 B. 7025 C. 7225 D. 8125
15. Find the least number of four digits that is a perfect square.
- A. 1474 B. 1024 C. 854 D. 963