



# TEST PAPER: MATHEMATICS

**Time: 50 Minutes**

**Class: 8<sup>th</sup> C.B.S.E.**

**Max. Marks: 30 Marks**

**Date: 1<sup>st</sup> July, 2018**

**Marking Scheme:** Questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

## Question 1:

- A.** i. Express 49 as the sum of seven odd numbers.  
ii. Express 36 as the sum of six odd numbers.
- B.** i. Without adding, find the sum using the property of squares. Also state the property you have used.  
(1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17)  
ii. Find the value of  $\sqrt{441}$
- C.** Find square root of 426409 by the method of long division

## Question 2:

- A.** Find the square root of 7744 by the method of long division
- B.** Find the square root of 7744 by the method of prime factorization.
- C.** Select the correct option:
- i. Which of the following is the difference between the squares of 21 and 22?  
(i) 21                      (ii) 22                      (iii) 42                      (iv) 43
- ii. Which of the following is the number of zeros in the square of 900?  
(i) 3                      (ii) 4                      (iii) 5                      (iv) 2
- iii. Which of the following can be a perfect square?  
(i) A number ending in 3 or 7  
(ii) A number ending with odd number of zeros  
(iii) A number ending with even number of zeros  
(iv) A number ending in 2.

## Question 3:

- A.** How many numbers lie between squares of the following numbers?  
(i) 12 and 13  
(ii) 25 and 26  
(iii) 99 and 100
- B.** Find the square root of 6400 by prime factorization.
- C.** What will be the "one's digit" in the square of the following numbers?  
(i) 1234  
(ii) 26387  
(iii) 52698  
(iv) 9106