



TEST PAPER: MATHEMATICS

Time: 50 Minutes

Class: 8th I.C.S.E.

Max. Marks: 30 Marks

Date: 25th April, 2018

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

Question 1:

- Represent each of the following rational numbers on the number line:
(i) $\frac{5}{8}$ (ii) $-\frac{3}{16}$
- Find the square root of 9216 by using the method of prime factorization.
- Evaluate $\sqrt{3}$ up to two places of decimal.

Question 2:

- Find the square root of 19600 by using the method of long division.
- Find the square root of 0.2916 by using the method of long division.
- Find the least number which must be subtracted from 7060 to obtain a perfect square.

Question 3:

- Find the smallest number by which 1008 must be multiplied to get a perfect square. Also, find the square root of the perfect square so obtained.
- Find the smallest number by which 768 must be multiplied to get the perfect square number.
- Find the least number which must be added to 306455 to obtain a perfect square.

Question 4:

- Find out two rational numbers lying between -3 and -2 using the mean method.
- Find out ten rational numbers lying between $\frac{7}{3}$ and $\frac{4}{2}$ using the L.C.M. method.
- Divide the sum of $-\frac{13}{5}$ and $\frac{12}{7}$ by the product of $-\frac{31}{7}$ and $-\frac{1}{2}$.