TEST PAPER: MATHEMATICS

Time: 50 Minutes   **Class: 8th C.B.S.E.**

Max. Marks: 30 Marks   **Date: 12th September, 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.*

Question 1:

a. Express each of the following ratios as percent:
   (i) 3 : 16
   (ii) 2 : 5

b. Fill in the blanks: (Show the working too)
   (i) 8 is ____ % of 24.
   (ii) 3.5 kg is ____ % of 35 kg.

c. i. In a class of 48 students, 4 are absent. What percent is absent?
   ii. Out of $20 pocket money, Ron spends $14. Express this as a percentage.

Question 2:

a. An oil tanks contains 16 litres of oil. Due to leakage 2 litres of oil is lost. What percent of oil is lost?

b. Express the following fractions into percentage:
   (i) 2/5
   (ii) 3/8
   (iii) 3/200

c. The number of members in 20 families are given below:

   4, 6, 5, 5, 4, 6, 3, 3, 5, 5, 3, 5, 4, 4, 6, 7, 3, 5, 5, 7

   Prepare a frequency distribution of data.

Question 3:

a. On selling of fan for $ 810, Sam gains 8%. For how much did he purchase it?

b. What is the selling price?
   (a) When marked price = $30 and discount = 15%
   (b) When marked price = $420 and discount = 7%

c. The marks obtained by 40 students of a class in an examination are given below:
   8, 47, 22, 31, 17, 13, 38, 26, 3, 34, 29, 11, 22, 7, 15, 24, 38, 31, 21, 35, 42, 24, 45, 23, 21, 27, 29, 49, 25, 48, 21, 15, 18, 27, 19, 45, 14, 34, 37, 34
   Prepare a frequency distribution table with equal class intervals, starting from 0-10 (where 10 is not included).