TEST PAPER: MATHEMATICS
Time: 50 Minutes   **Class:** 9th I.C.S.E.
Max. Marks: 30 Marks   **Date:** 9th January, 2018

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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. A person opens a recurring deposit account with a Bank and deposited 600 per month for 20 months. Calculate the maturity value of this account, if the bank pays interest at the rate of 10% per annum.

b. A man buys Rs. 50 shares of a company, paying 12 per cent dividend, at a premium of Rs. 10. Find;
   i. The market value of 320 shares;
   ii. His annual income
   iii. His profit percent.

c. i. How much money will be required to buy 200, Rs. 25 shares at a premium of Rs. 2?
   ii. How much money will be required to buy 125, Rs. 30 shares at a discount of Rs. 3?

Question 2:

a. A man buys Rs. 75 shares at a discount of Rs. 15 of a company paying 20% dividend find;
   i) The market value of 120 shares;
   ii) His annual income;
   iii) His profit Percent;

b. Mr. Gupta opened a recurring deposit account in a bank. He deposited Rs. 2,500 per month for two years. At the time of maturity, he got Rs.67,500. Find:
   i. The total interest earned by Mr. Gupta
   ii. The rate of interest per annum.

c. A man invests Rs. 1680 in buying shares of nominal value Rs. 24 and selling at 12% premium. The dividend on the shares is 15% per annum.
   Calculate:
   i. The number of shares he buys;
   ii. The dividend he receives.

Question 3:

a. Shyam deposited Rs. 150 per month in his bank for eight months under the Recurring Deposit Scheme. Find the maturity value of his deposit, if the rate of interest is 8% per annum and the interest is calculated at the end of every month?

b. How much should a man invest in Rs. 100 shares selling at Rs. 110 to obtain an annual income of Rs. 1680, if the dividend declared is 12%?

c. Mr. Gupta opened a recurring deposit account in a bank. He deposited Rs. 2,500 per month for two years. At the time of maturity, he got Rs.67,500. Find:
   i) The total interest earned by Mr. Gupta
   ii) The rate of interest per annum.