University of Bahrain Bahrain Teachers College TC2MA324: History of Mathematics Dr. Abdulla Eid Spring 2015





## Quiz 6

Name:
1. (2 points) Find the Maturity (future) value <i>and</i> the amount of simple interest of saving 300 <b>BHD</b> at 3% for 11 months.
2. (2 points) You bought a laptop that costs 430 <b>BHD</b> using a credit card that charges 1.5% annually. Supposed you have not paid anything for 18 months. How much you owe the bank and how much is the bank interest?
3. (3 points) Find the maturity <i>and</i> the saving interest of investing 100 <b>BHD</b> each month in an account that pays 2.2% annually for 10 years?

4. (3 points) The inflation rate in the Kingdom of Bahrain for March 2015 was 2.2% per year. Assume a fast–food meal costs 1.800 **BHD** and assume the inflation rate will continue as it is, how many months it will take for the meal to cost 2.000 **BHD**?

5. (3 points) 1. Derive a formula that can be used to find the monthly installment R of an amortization of a loan P with annual rate r to be paid back in n years.

2. Use the formula you derived above to find the monthly installment of a house costs 144,000 **BHD** with interest rate 6% annually and to be paid back in 30 years.