Question One:

a) A person gets $ 63.75 every 6 months from an investment that pays 6% interest. How much money is invested?

b) On November 15 , 1993, a woman borrowed $500 at 15 %. The debt is repaid on February20, 1994. find the simple interest using the four methods

Course No: summer course
Course Title: mathematic of finance
Date: Wednesday, August 08, 2012
No. of Questions: (5)
Time: 2 hours
Using Calculator (yes)

University of Palestine

Final   Exam
1ˢᵗ 2011/2012
Total Grade:

Instructor Name: Nafez M. Barakat
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

Question two :

a) A women borrows $600 for 6 months from a lender who uses a discount rate of 10%. What the discount and how money does the borrower get?

b) a bank discount a $200 note due in a year using a bank discount rate of 12.0%. what interest rate is the bank getting?

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Using Dictionary (No)

Question Three:

A depositor planned to leave $2000 in saving and loan association paying 5% compounded semiannually for a period of 5 years. At the end of 2.5 years the depositor had to withdraw $1000. what amount will be in the account at the end of original 5-year period?

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Using Dictionary (No)

Question four :

1) A donor wants to provide a $3000 scholarship every year for 4 years with the first to be awarded 1 year from now. If the school can get 9% return on its investment , how much money should the donor give now?

2)A women wants to accumulates $5000 by making of $1000 at the end of each year. If she gets 5% on her money, how many regular payments will she make and what will be the size of the last payments?

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Question five :

An investment of $200 is made at the beginning of each year for 10 years. If interest is 6% effective, how much will the investment be worth at the end of 10 years?

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No. of Questions: (5)	**Final Exam**	College Name: _____
Time: 2 hours	**1st 2011/2012**	Dep. / Specialist: _____
Using Calculator (yes)	Total Grade:	Using Dictionary (No)

Impotrant formulas

$$I = P. r. t \qquad D = S.d.t \qquad S = \frac{P}{1 - d\,t}$$

$$d = \frac{r}{1 + r \times t} \qquad r = \frac{d}{1 - d \times t} \qquad S = P\,(1+i)^n$$

$$A_n = R\,a\overline{)}n = R\,\frac{1 - (1+i)^{-n}}{i} \quad , \quad S_n = R\,s\overline{)}n = R\,\frac{(1+i)^n - 1}{i}$$

$$S_n(due) = R \times s\overline{)}n(1+i) = R\left(\frac{(1+i)^n - 1}{i}\right)(1+i)$$

$$S_n(due) = R(s\overline{)}n+1 - 1) = R\left(\frac{(1+i)^{n+1} - 1)}{i} - 1\right)$$

No.	Month	days
1	January	31
2	February	28/29
3	March	31
4	April	30
5	May	31
6	June	30
7	July	31
8	August	31
9	September	30
10	October	31
11	November	30
12	December	31

Good Luck