

<b>Kafrelsheikh University</b> <b>Faculty of Commerce</b> <b>English Section- First Year</b> <b>Name:</b> <b>Academic No.:</b>		<b>Second Term</b> <b>Final - Term Exam 2019/2020</b>  <b>Course: Mathematics of Finance</b>
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**Write a research article in one of the following topics: -**

**The first topic:**

**Explain the basic concepts of simple interest theory and its applications in financial world**

- Simple Interest Formula
- Finding the Amount
- Partial Payments
- Finding the value of bank discount and proceeds
- Exact and Ordinary Interest
- Present value and simple discount
- Equation of the value

**The second topic:**

**Explain the basic concepts of compound interest theory and its applications in financial world.**

- Compound amount formula
- Compound Discount on Notes
- Equation Values Involving Compound Interest
- Present value and compound discount
- Effective annual interest rate
- Equated date

**The third topic:**

**The subject of annuities is extremely important to our financial world. Discuss.**

- Definition of annuity
- Present value of an ordinary annuity
- Present value of an annuity due
- Amount of an ordinary annuity
- Amount of an annuity due.

**The Fourth Topic:**

**Compound Discount on Notes using Simple and Compound Interest.**

- Discounting an Interest-Bearing Debt.
- Discounting a non-Interest-Bearing Debt.

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**Assistant Prof. Dr. Tarek Abd Elhamid**