

3.080 Engineering Economics EXAM

October 13, 2005

1. What is return on capital? Why do investors expect such returns? (8 points)
2. A firm has available the following set of investment options:

Additionally, the firm can always lend money to other firms, thereby receiving a return of 6%. Or they can borrow up to \$100,000 at a rate of 10%.

Project	Investment	Rate of Return
1	\$10,000	20%
2	\$10,000	15%
3	\$10,000	10%
4	\$10,000	8%
5	\$10,000	7%
6	\$10,000	4%

- a. What should the firm's MARR be if they had a budget for projects of \$40,000? (4 points)
 - b. What should the firm's MARR be if they had a budget for projects of \$60,000? (4 points)
3. A couple with a newborn daughter wants to establish a college fund to pay for future college expenses. The couple can earn 7% (assume that this is a market based interest rate) compounding annually on their investments and estimate that future college costs will be \$60,000 (nominal dollars) per year for four years. Assume that the daughter enters college at age 18 and that payments are made on each birthday. Also, assume that college costs must be paid at the beginning of the college year. What annual payment must be made to ensure that a sufficient amount has been saved to cover all costs when the daughter enters college? (12 points)
 4. Determine the present worth of \$5,000 paid every three months over a period of 7 years in the following two situations:
 - a. The nominal interest rate is 12%, compounded quarterly (every 3 months) (6 points)
 - b. The nominal interest rate is 12%, compounded monthly. (6 points)

Engineering Economy Exams

Mohammad Iqbal, Ali Iqbal



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Engineering Economic Analysis Donald G. Newnan, Ted G. Eschenbach, Jerome P. Lavelle, 2004 *Engineering Economy Exam File* Donald G. Newnan, 1984 *Engineering Economic Analysis Exam File* Donald G. Newnan, 1995 Professional Engineering Exam Review Course Clinton L. Heimbach, 1987 **Engineering Economic Analysis Exam File II** Charles L. Burford, 1992 **Engineering Economic Analysis: Exam file** Donald G. Newnan, 1995 **Chapman & Hall's Complete Fundamentals of Engineering Exam Review Workbook** Professional Engineer Review Course, 2013-06-29 I am often asked the question Should I get my PE license or not Unfortunately the answer is Probably First let s take a look at the licensing process and understand why it exists then take a look at extreme situations for an attempt at a yes no answer and finally consider the exams All 50 have a constitutionally defined responsibility to protect the public From an engineering point of view as well as many other professions this responsibility is met by the process of licensure and in our case the Professional Engineer License Though there are different experience requirements for different states the meaning of the license is common The licensee demonstrates academic competency in the Fundamentals of Engineering by examination Principles and Practices at PE time The licensee demonstrates qualifying work experience at PE time The licensee ascribes to the Code of Ethics of the NSPE and to the laws of the state of registration Having presented these qualities the licensee is certified as an Intern Engineer and the state involved has fulfilled its constitutionally defined responsibility to protect the public *Fundamentals of Engineering Economics and Decision Analysis* David Whitman, Ronald Terry, 2022-06-01 The authors cover two general topics basic engineering economics and risk analysis in this text Within the topic of engineering economics are discussions on the time value of money and interest relationships These interest relationships are used to define certain project criteria that are used by engineers and project managers to select the best economic choice among several alternatives Projects examined will include both income and service producing investments The effects of escalation inflation and taxes on the economic analysis of alternatives are discussed Risk analysis incorporates the concepts of probability and statistics in the evaluation of alternatives This allows management to determine the probability of success or failure of the project Two types of sensitivity analyses are presented The first is referred to as the range approach while the second uses probabilistic concepts to determine a measure of the risk involved The authors have designed the text to assist individuals to prepare to successfully complete the economics portions of the Fundamentals of Engineering Exam Table of Contents Introduction Interest and the Time Value of Money Project Evaluation Methods Service Producing Investments Income Producing Investments Determination of Project Cash Flow Financial Leverage Basic Statistics and Probability Sensitivity Analysis *Engineering Economics for Professional Engineers' Examinations* Max Kurtz, 1959 Contemporary Engineering Economics Chan S. Park, 2011 Contemporary Engineering Economics 5 e is intended for undergraduate engineering students taking introductory engineering economics while appealing to the full range of engineering disciplines

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Engineering Economy Leland T. Blank, Anthony J.

Tarquin,2002 Publisher Description **Engineering Economics for the Professional Engineer Examination** Donald G. Newnan,1986-01-01 Engineering Economy William G. Sullivan,James A. Bontadelli,Elin A. Wicks,2001 For undergraduate introductory courses in Engineering Economics Used by over 500 000 students this best selling text provides a sound understanding of the principles basic concepts and methodology of engineering economy Built upon the rich and time tested teaching materials of earlier editions it is extensively revised and updated to reflect current trends and issues with an emphasis on the economics of engineering design throughout It provides one of the most complete and up to date studies of this vitally important field *Mechanical Engineering License Exam File* Richard K. Pefley,1986 **Probability and Statistics Exam File** Thomas Ward,1985

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