

TEST #3 (Practice) **Answer Key**

Tech ID#

Name

To solve questions, refer to the compound interest tables. You need to show the problem solving process. Otherwise, your score will be zero.

PART I: Short Questions (10x4=40 points)

1. Find the expected EUAW from the financial data provided in the table below for a new equipment. Because of the uncertainty of technology being used in this equipment, it has not been possible to get the initial cost accurately. The annual benefit, however, is estimated to be \$25,000 with a possible equipment life of 5 years. The salvage value is expected to be 10% of the initial cost. MARR = 5%.

First Cost, \$	\$60,000	\$80,000	\$100,000	\$120,000
Probability	0.25	0.35	0.30	0.10

$$\text{Expected first cost} = [60,000 (0.25) + 80,000 (0.35) + 100,000 (0.30) + 120,000 (0.10)] = \$85,000$$

$$\text{Expected salvage value} = 85,000 (0.10) = \$8,500$$

$$\begin{aligned}\text{Expected EUAW} &= 25,000 - [85,000 (A/P, 5\%, 5) - 8,500 (A/F, 5\%, 5)] \\ &= 25,000 - [85,000 (0.2310) - 8,500 (0.1810)] = \$6903.5\end{aligned}$$

2. A project has the following costs and benefits. What is the payback period?

Year	Costs	Benefits
0	\$65,000	
1-2	\$15,000	
3	\$5,000	\$50,000
4-10		\$10,000 in each year

Costs equate to the benefits by end of year 8. Payback of 8 years.

Year	Costs	Benefit	Cumulative Benefit - Costs
0	\$65,000		-\$65,000
1	\$15,000		-\$80,000
2	\$15,000		-\$95,000
3	\$5,000	\$50,000	-\$50,000
4		\$10,000	-\$40,000
5		\$10,000	-\$30,000
6		\$10,000	-\$20,000
7		\$10,000	-\$10,000
8		\$10,000	\$0

Engineering Economics Subject Code Questions With Answer

R Bogdan

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Engineering Economics: Decisions and Solutions from Eurasian Perspective Svetlana Igorevna

Ashmarina, Valentina Vyacheslavovna Mantulenko, Marek Vochozka, 2020-07-17 This book presents the outcomes of the annual Engineering Economics Week 2020 organized by the Russian Union of Industrialists and Entrepreneurs the Institute of Management and the Institute of Market Problems of the Russian Academy of Sciences RAS the South Russian State Polytechnic University and Samara State University of Economics and held in online format in May 2020 Focusing on the following topics the globalized economy and Russian industrial enterprises development specifics and international co operation state support for the real sector of the economy decisions in production and project management in the context of the digital economy big data and big challenges in production networks and systems and economic and social aspects of the innovation management decision making and control this book will appeal to scientists teachers and students bachelor s master s and postgraduate at higher education institutions economists specialists at research centers managers of industrial enterprises business professionals and those at media centers and development fund and consulting organizations

Mechanical Engineering Reference Manual for the PE Exam Michael R. Lindeburg, 2006

As the most comprehensive reference and study guide available for engineers preparing for the breadth and depth mechanical PE examination the twelfth edition of the Mechanical Engineering Reference Manual provides a concentrated review of the exam topics Thousands of important equations and methods are shown and explained throughout the Reference Manual plus hundreds of examples with detailed solutions demonstrate how to use these equations to correctly solve problems on the mechanical PE exam Dozens of key charts tables and graphs including updated steam tables and two new charts of LMTD heat exchanger correction factors make it possible to work most exam problems using the Reference Manual alone A complete easy to use index saves you valuable time during the exam as it helps you quickly locate important information needed to solve problems _____ Since 1975 more than 2 million people preparing for their engineering

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Mordecai Avriel, 2003-01-01 This overview provides a single volume treatment of key algorithms and theories Begins with the derivation of optimality conditions and discussions of convex programming duality generalized convexity and analysis of selected nonlinear programs and then explores techniques for numerical solutions and unconstrained optimization methods

1976 edition Includes 58 figures and 7 tables **Directory of Selected National Testing Programs** Educational Testing

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society's Transactions Beginning Oct 1930 the Proceedings are limited to technical papers and discussions while Civil engineering contains items relating to society activities etc **Professional Engineer** ,1949 Transactions of the American Society of Civil Engineers American Society of Civil Engineers,1926 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 *The National Engineer* ,1925 Vols 34 contain official N A P E directory *Railway Master Mechanic* ,1907 **Monthly Bulletin** Los Angeles Public Library,1917 Library Books Los Angeles Public Library,1918 The Purdue Agriculturist ,1923 **Transactions of the Illuminating Engineering Society** Illuminating Engineering Society,1920 Transactions of the Illuminating Engineering Society ,1920 **Purdue Agriculturist** ,1924

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