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| Name of School | **FEU-EAST ASIA COLLEGE** |
| Address | **FEU-EAC Main Building, FEU Campus Nicanor Reyes St. Sampaloc Manila** |
| Signature over Printed Name , Position | **D:\JOSHUA B. ANCHETA DRIVE D\APPICATION CRED\s4.JPG**  **Engr. Joshua B. Ancheta, PECE**  **ECE Program Coordinator** |
| Area of Specialization | **Academe (Teaching Electronics, Mathematics, and General Engineering Subjects)** |

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| Please indicate the subject:  **( ) General Engineering and Applied Science**  ( ) Electronics System & Technologies |
| QUESTION:  An investor has an option to purchase a tract of land that will be worth P20,000 in seven years. If the value of the land increases at 9% each year, how much should the investor be willing to pay now for this property? |
| Choices:  a. P9,341 b. P10,941 c. P11,521 d. P12,015 |
| ANSWER: b. P10,941 |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 13th edition copyright 2006  WILLIAM G. SULLIVAN, ELIN M. WICKS, JAMES T. LUXHOJ (page 139) |

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| QUESTION:  Suppose that you make 12 equal annual deposits of P2,000 each into a bank account paying 8% interest per year. The first deposit will be made one year from today. How much money can be withdrawn from this bank account immediately after the 12th deposit? |
| Choices:  a. P35,492 b. P36,218 c. 37,954 d. P38,755 |
| ANSWER: c. 37,954 |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 13th edition copyright 2006  WILLIAM G. SULLIVAN, ELIN M. WICKS, JAMES T. LUXHOJ (page 145) |

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| Please indicate the subject:  **( ) General Engineering and Applied Science**  ( ) Electronics System & Technologies |
| QUESTION:  What is the effective rate of interest if P1000 is invested at a nominal rate of 15% compounded quarterly? |
| Choices:  a. 15.86% b. 16.86% c. 17.86% d. 18.86% |
| ANSWER: a. 15.86% |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 3rd Edition copyright 2000  HIPOLITO B. STA MARIA (page 9 ) |

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| Please indicate the subject:  **( ) General Engineering and Applied Science**  ( ) Electronics System & Technologies |
| QUESTION:  A man purchased a house for P425,000. In the first month that he owned the house, he spent P75,000 on repairs and remodeling. Immediately after the house was remodeled, he was offered P545,000 to sell the house. After some consideration, he decided to keep the house and have it rented for P4,500 per month starting two months after the purchase. He collected rent for 15 months and then sold the house for P600,000. if the interest rate was 1.5% per month, how much extra money did he make or lose by not selling the house immediately after it was remodeled? |
| Choices:  a. P3,000 b.P4,000 c. P5,000 d. P6,000 |
| ANSWER: c. P5,000 |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 3rd Edition copyright 2000  HIPOLITO B. STA MARIA (page 27 ) |

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| Please indicate the subject:  **( ) General Engineering and Applied Science**  ( ) Electronics System & Technologies |
| QUESTION:  On the day his grandson was born, a man deposited to a trust company a sufficient amount of money so that the boy could receive five annual payments of P20,000 each for his college tuition fees, starting with his 18th birthday. Interest at the rate of 12$ per annum was to be paid on all amounts on deposit. There was also a provision that the grandson could elect to withdraw no annual payments and receive a single lump amount on his 25th birthday. The grandson chose this option. How much did the grandfather deposit? |
| Choices:  a. P9,500 b. P10,500 c. P11,500 d. P12,500 |
| ANSWER: P10,500 |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 3rd Edition copyright 2000  HIPOLITO B. STA MARIA (page 30 ) |

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| Please indicate the subject:  **( ) General Engineering and Applied Science**  ( ) Electronics System & Technologies |
| QUESTION:  A man bought an equipment costing P30,000 payable in 12 quarterly payments, each installment payable at the beginning of each period. The rate of interest is 24% compounded quarterly. What is the amount of each payment |
| Choices:  a. P1,700 b. P2,700 c. P3,700 d. P4,700 |
| ANSWER: c. P3,700 |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 3rd Edition copyright 2000  HIPOLITO B. STA MARIA (page 36 ) |

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| Please indicate the subject:  **( ) General Engineering and Applied Science**  ( ) Electronics System & Technologies |
| QUESTION:  A telecommunication company purchased an equipment for P53,000 and paid P1,500 for freight and delivery charges to the job site. The equipment has a normal life of 10 years with a trade-in value of P5,000 against the purchase of a new equipment at the end of the life. Determine the annual depreciation cost by the sinking fund method. Assume interest at 6.5% compounded annually. |
| Choices:  a. P2,543 b. P3.,668 c. P4,215 d. P5,956 |
| ANSWER: b. P3.,668 |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 3rd Edition copyright 2000  HIPOLITO B. STA MARIA (page 59 ) |

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| QUESTION:  A plant bought a machine for P200,000 and used it for 10 years, the life span of the equipment. What is the book value of the machine after 5 years of use? Assume a scrap value of P20,000. Use double declining balance method. |
| Choices:  a. P43,648 b. P59,425 c. P65,536 d. P70,923 |
| ANSWER: c. P65,536 |
| SOLUTION ( IF PROBLEM -SOLVING) |
| Reference: Title of the book, author and page  Engineering Economics, 3rd Edition copyright 2000  HIPOLITO B. STA MARIA (page 63 ) |

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