

Department of Accountancy, John Molson School of Business
ACCO 320 – Intermediate Accounting II, Fall 2012
Dr. Kelly F. Gheyara/ Prof Trevor Hagyard

Final Examination
Friday, December 14, 2012, 7:00 - 10:00 PM

Student Name: _____ **Student ID:** _____ **Section:** _____

Part	Marks	Proportionate Time	Score
Ques. I. Multiple Choice Questions	(30 Marks)	550 minutes	
Ques. II. Pensions	(18 Marks)	32 minutes	
Ques. III. Income Taxes	(18 Marks)	32 minutes	
Ques. IV. Leases	(16 Marks)	29 minutes	
Ques. V. Earnings Per Share	<u>(18 Marks)</u>	<u>32 minutes</u>	
<u>TOTAL</u>	<u>100 Marks</u>	<u>180 minutes</u>	

Instructions:

1. Make sure you put your name, student ID, and section above as well as on the answer booklet AND put your ID on your desk, face up. **There are 5 Questions and 15 Pages including 3 pages for PV tables, in this booklet.**
2. For multiple choice questions in **Question I**, make sure to circle the alphabet related to one answer you consider best. **Answers FOR THIS QUESTION MUST BE MARKED on this exam booklet itself or they will not be marked.**
3. There is partial credit available on Questions II - V. So make sure you **SHOW ALL YOUR WORK AND COMPUTATIONS.**
4. Calculators (non alphanumerical) and dictionaries are allowed; tables for time value of money are attached at the end of the exam. **One 8.5 x 11" sheet, written both sides, containing your notes maybe used during the exam.**
5. Allocate your time wisely... You have 3 hours to complete this exam. **You MUST STOP all your work** and turn in the exam when the invigilator says the time is up.
6. You MUST return (1) this document without any missing pages, (2) your answer booklet.

READ EACH PROBLEM AND THINK CAREFULLY.
GOOD LUCK!! WE WISH YOU WELL...

QUESTION I - Multiple Choice - (30 Marks)

INSTRUCTIONS: Answer on **THIS BOOKLET ONLY**. Answers to this question written anywhere else **WILL NOT BE GRADED**.
Answer ALL QUESTIONS.
BEST TWELVE Will Be Graded.

Multiple Choice Questions [12 x 2.5 Marks each] 30 Marks

1. HabzKnot issues \$3,000,000 of 6-year, 6% bonds to yield 8.0%. The bonds were dated January 1, 2X11 but some regulatory hurdles, were not issued till July 1, 2X11. Interest is paid annually on January 1. The entry to record the issue of these bonds plus interest would be
 - A. Debit Cash \$3,000,000 and Credit Bonds Payable \$3,000,000.
 - B. Debit Cash \$2,925,000; Debit Interest Receivable \$75,000 and Credit Bonds Payable \$3,000,000.
 - C. Debit Cash \$3,025,000; Credit Bonds Payable \$3,000,000 and Credit Interest Payable \$75,000 .
 - D. Debit Cash \$2,737,183 and Credit Bonds Payable \$2,737,183.
 - E. **None of the above but Debit Cash \$2,831,528; Credit Bonds Payable \$2,741,528 and Credit Interest Expense/Payable \$90,000.**
- OR E. **None of the above but Debit Cash \$2,827,183; Credit Bonds Payable \$2,737,183 and Credit Interest Expense/Payable \$90,000.**
2. In accounting for a pension plan, any difference between the pension cost charged to expense and payments into the fund should be reported as:
 - A. An offset to the liability for past service cost.
 - B. **Accrued pension asset or liability.**
 - C. An operating expense of the period.
 - D. An actuarial gain or loss.
 - E. None of the above.
3. On December 31, 20X6, CeeDee, Inc., reported its equity as follows:

\$1 cumulative preferred shares, no-par, convertible at the rate of	
4-for-1; 350,000 shares outstanding	\$ 9,000,000
No-par common shares, 3,500,000 shares outstanding	15,000,000
Retained earnings	30,600,000

It also informed you that on July 1, 20X6, 150,000 preferred shares had been converted to 600,000 common shares. The preferred shares had been issued on January 1, 20X0 and has declared and paid dividends on June 30 and December 31 each year since its issue. The company reported net income of \$2,289,000 for 20X6. Calculate the basic earnings per share which the company should report for the year.

 - A. **\$0.58 per share.**
 - B. \$0.65 per share
 - C. \$0.60 per share.
 - D. \$1.01 per share.
 - E. None of the above but \$ _____ per share.

4. For purposes of computing the weighted-average number of shares outstanding during the year, a mid-year event that must be treated as occurring at the beginning of the year is the:
- A. Issue of additional common shares.
 - B. Purchase of treasury stock.
 - C. Issuance of stock warrants.
 - D. Stock split.**
 - E. Issue of nonconvertible cumulative preferred shares.

5. What are the three types of period costs that a lessee experiences with capital leases?
- A. Lease expense, interest expense, amortization expense.
 - B. Interest expense, amortization expense, executory costs.**
 - C. Amortization expense, executory costs, lease expense.
 - D. Executory costs, interest expense, lease expense.
 - E. None of the above but _____.

6. The following pertains to Kane Co.'s defined benefit pension plan (deferral and amortization method) for 2012:

Prepaid pension cost, January 1, 2012	\$ 2,000
Current service cost	19,000
Interest cost	38,000
Expected return on plan assets	22,000
Actual return on plan assets	(1,000)
Amortization of unrecognized past service cost	52,000
Contributions made	40,000

The fair value of plan assets exceeds the ABO. In its December 31, 2012 balance sheet what amount should Kane report as unfunded accrued pension cost?

- A. **\$45,000**
 - B. \$49,000
 - C. \$67,000
 - D. \$87,000
 - E. None of the above but \$ _____.
7. LemonKorp had two types of securities outstanding: common shares and an 9% convertible bond with a maturity value of \$4,000,000. Interest payment dates of the bond are July 1 and January 1. The bond indenture contains a conversion clause which entitles the bondholders to convert each \$1,000 bond into 40 no par value common shares. The equity portion of the bond issue has a value of \$30,000. On June 30, 2008, the holders of \$600,000 face value bonds exercised their conversion privilege. The market price of the bonds on that date was \$1,100 per bond and the market price of the common shares was \$35. The balance of the total unamortized bond discount at the date of conversion was \$250,000. In applying the book value method, what amount should LemonKorp credit to the Common Shares account as a result of this conversion?
- A. \$567,000.**
 - B. \$562,500
 - C. \$642,000..
 - D. \$840,000.
 - E. None of the above but \$ _____.

- Page 4

12. The following information relates to the pension plan for the employees of NaChi Co.,:

	<u>1/1/06</u>	<u>1/1/07</u>	<u>1/1/08</u>
Projected benefit obligation	930,000	996,000	1,334,000
Fair value of plan assets	850,000	1,040,000	1,148,000
Unrecognized net actuarial gain/(loss)	144,000	(310,000)	- 0 -

NaChi estimates that the average remaining service life of employees is 16 years for each of the three years.

The amount of amortization, [either debited or (credited) to the expense account] of the actuarial (loss) or gain in each of the three years 2006, 2007 and 2008 using the 10% corridor approach would be (answer rounded to the nearest integer dollar)

- A. Credit \$3,188, Debit \$12,875 and \$zero.
 - B. Debit \$3,188, Credit \$12,875 and \$zero.**
 - C. Credit \$3,313, Debit \$4,082 and Debit \$1,989.
 - D. \$zero, Credit \$2,500 and Debit \$2,194.
 - E. None of the above but _____.
13. On the first day of its fiscal year, Lessor Inc. leased out certain property. 10 annual lease payments are due at the beginning of each year of \$100,000. The first payment was received immediately on signing the lease. The leased property is new, cost \$650,000 and has an economic life of 13 years with no residual value. The lessor has an implied rate of interest in the lease of 8%. The lessor had no other costs associated with this lease.
- Assuming that the lessor should have accounted for the lease as a capital lease but mistakenly accounted for it as an operating lease, what would be the effect **on net earnings** during the first year of the lease by having misclassified this lease?
- A. No effect.
 - B. Understated.**
 - C. Overstated.
 - D. Insufficient information to determine any effects.
 - E. The effect depends on the method selected for income tax purposes.

SOLUTION

- 1.E. **None of the above but Debit Cash \$2,831,528; Credit Bonds Payable \$2,741,528 and Credit Interest Expense/Payable \$90,000.**

PV Annuity Factor @8%, 6 years	=	4.62288
PV Annuity Factor @8%, 5 years	=	<u>3.99271</u>
Average Annuity Factor	=	<u>4.307795</u>
 PV Single Amount Factor @8%, 6 years	=	0.63017
PV Single Amount @8%, 5 years	=	<u>0.68058</u>
Average Annuity Factor	=	<u>0.655375</u>
 PV Annuity, \$180,000 as above, \$180,000 x 4.307795	=	775,403
PV Single Amt., \$3M as above, \$3M x 0.655375	=	<u>1,966,125</u>
Bond Issue Price		<u>2,741,528</u>
Cash interest		<u>90,000</u>
Cash received		<u>2,831,528</u>

OR

- 1.E. **None of the above but Debit Cash \$2,827,183; Credit Bonds Payable \$2,737,183 and Credit Interest Expense/Payable \$90,000.**

PV Annuity, \$90,000 @4%, 11 periods	8.76048 x \$90,000	=	788,443
PV Single Amt., \$3M @3% 11 periods	0.64958 x \$3M	=	<u>1,948,740</u>
Bond Issue Price			<u>2,737,183</u>
Cash interest			<u>90,000</u>
Cash received			<u>2,827,183</u>

2.B.

3.A

Basic:	
Net earnings	\$2,289,000
Pref dividends	
500,000 x \$.25 x 2	(250,000)
350,000 x \$.25 x 2	<u>(175,000)</u>
	<u>\$1,864,000</u>
Weighted average shares	
2,900,000 x 6/12	1,450,000
3,500,000 x 6/12	<u>1,750,000</u>
	<u>3,200,000</u>
 Basic EPS	 <u>\$0.58</u>

4.D

5. B

6. A **\$45,000**

Soln: The pension expense is as follows:

Current service cost	19K
Int cost	38K
Expected return	(22K)
PSC amort	<u>52K</u>
Pension exp	87K

Balance at 31/12/12 = -2K + 87K - 40K funded = 45K

7.A. \$567,000.

Book value = (4,000,000 - 250,000) x 0.15 =	562,500
Equity = 30,000 x 0.15 =	<u>4,500</u>
Credit to Common shares	<u>567,000</u>

8.C. \$30,000.

soln: at year end, cumulative taxable differences = 70K*.3 = \$21K	
beginning of year	<u>(9K)</u>
difference, during the year (100K * 0.30)	<u>\$30K</u>

9.A. \$51,600.

Soln: The annual lease payment is \$75K (323K / 4.312). Total lease payments after 5 yrs will be \$375K and the interest revenue is the excess of payments over PV of them (\$323.4) thus \$51.6K

10.B. \$489,250.

Issue Price (500 x 1.03 x 1000) =	<u>515,000</u>
FMV Bonds (0.95 x 500 x 1000) =	475,000
FMV Warrants (500 x 1 x 50) =	<u>25,000</u>
Amount Credited to B/P (515,000 x 475)/500	<u>489,250</u>

11.B. Unearned interest revenue 6,816

Interest revenue	6,816
(80,000 - 11,836) x 0.1	

12. B. Debit \$3,188, Credit \$12,875 and \$zero.

Year 06: [144,000 - 0.1 x (930,000)]/16	3,188 Debit
Year 07: [(- 310,000) - (1,040,000 x 0.1)]/16	4,074 Credit
Year 08:	-0-

OR

B. \$zero, Debit \$2,500 and Credit \$2,194.

Year 06:	-0-
Year 07: [144,000 - 0.1 x (1,040,000)]/16	2,500 Debit
Year 08: [(144,000 - 2,500 - 310,000) - (1,334,000 x 0.1)]/16	2,194 Credit
	-0-

13. **B Understated.**

Solution - recorded \$100,000 revenue and depreciation of $\$650,000/13 = \$50,000$ thus income \$50,000

For capital lease, int revenue = $650,000 * 8\% = \$52,000$

Difference- thus understated.

QUESTION II - Accounting for Pensions (18 Marks)

Marko Consultants Limited began planning for setting up a pension fund in the year 20X3 to begin effectively from January 1, 20X4. It uses the deferral and amortization method within PE GAAP (defers experience gains and losses on plan assets and actuarial revaluations over the appropriate number of years). Terms of the pension plan follow:

- The expected earnings rate on plan assets and the discount rate is 6%;
- Employees, in service on January 1, 20X4, would receive a partial credit for their past service. This past service obligation with which the plan began, valued using the projected benefit actuarial cost method, was \$216,000 as of January 1, 20X4;
- Past service cost will be funded over 15 years. The initial payment on January 1, 20X4, was \$20,000. After that, an additional \$20,000 will be added, for each year including for 20X4, to the 31 December current service funding amount. The amount of past service funding will be reviewed every five years to ensure its adequacy; The average vesting period for past service cost was five years;
- Current service cost will be fully funded each December 31, plus or minus any actuarial losses or gains related to the pension liability. **Experience gains and losses related to the difference between actual and expected earnings on fund assets will not affect plan funding.** As they are expected to offset over time, these gains and losses were to be amortized over the expected average remaining service life.

Additional data for 20X4 and 20X5

	<u>20X4</u>	<u>20X5</u>
Current service cost for the year	\$51,000	\$57,000
Funding amount, January 1, 20X4	20,000	
Funding amounts, December 31	??	??
Actual return on fund assets	1,000	6,800
Increase in actuarial liability at year-end due to change in assumptions	34,000	0
EARSLS for all employees	26 years	25 years

Required: Preparing a pension worksheet would help you answer these questions more accurately

- a) Compute the 20X4 and 20X5 ending balances of ABO, plan assets, experience gain or loss and unamortized past service cost;
- b) Prepare the journal entries for 20X4 and 20X5 to record pension expense and the funding contribution.
- c) At the end of 20X5, show a reconciliation of the balance of the accrued pension asset/liability and its funding status.

SOLUTION: QUESTION II - Accounting for Pensions (18 Marks)

1. Pension Worksheet

	Pension Xp	Cash	Net Pension Asset/Liab	ABO	Plan Assets	Unamort PSC	Exper G/L
1/1/04				(216,000)		216,000	
PSC amort	43,200					(43,200)	
Funding		(20,000)			20,000		
Int exp	12,960			(12,960)			
Expect return	(1,200)				1,000		200
Current service	51,000			(51,000)			
Funding		(105,000)			105,000		
Act G/L				(34,000)			34,000
Balance 31/12/X4	105,960	(125,000)	(19,040)				
1/1/05			19,040	(313,960)	126,000	172,800	34,200
Current service	57,000			(57,000)			
Int exp	18,838			(18,838)			
return	(7,560)				6,800		760
PSC amort	43,200					(43,200)	
Amort exper G/L	112						(112)
Funding		(77,000)			77,000		
Balance 31/12/05	111,590	(77,000)	(34,590)				
1/1/06			(15,550)	(389,798)	209,800	129,600	34,848

2.

Entries 20X4

20X5

Pension Fund Expenses	105,960		111,590	
Net Pension Asset/Liability		105,960		111,590
Net Pension Asset/Liability	125,000		77,000	
Cash		125,000		77,000

3. Schedule of Net Pension Asset/Liability

Balance, ABO	(389,798)
Balance, Plan assets	<u>209,800</u>
Underfunded	(179,998)
Unamortized PSC	129,600
Unamortized Act. G/L	<u>34,848</u>
Net Pension Assets/Liabilities	<u>(15,550)</u>

1. Pension Worksheet Under Revised IFRS

	Pension Xp	Cash	OCI	Net Pension Asset/Lia b	ABO	Plan Assets
1/1/04			216,000		(216,000)	
Funding		(20,000)				20,000
Net Int exp	11,760		200		(12,960)	1,000
Current service	51,000				(51,000)	
Funding		(105,000)				105,000
Act G/L			<u>34,000</u>		(34,000)	
Expense Entry, 04	<u>(62,760)</u> 2		<u>250,200</u>	(312,960)		
Funding Entry		<u>(125,000)</u> 2		125,000		
Balance, 1/1/05				(187,960)	(313,960)	126,000
Current service	57,000				(57,000)	
Net Int exp	11,278		760		(18,838)	6,800
Funding		(77,000)				77,000
Expense Entry, 05	<u>68,278</u>		<u>760</u>	(69,038)		
<u>Funding Entry</u>		<u>(77,000)</u>		<u>77,000</u>		
Balance, 1/1/06			34,200	(179,998)	(389,798)	209,800

NOTE: In this version of the problem, the fund technically began with a zero balance. Therefore the first transaction would be to recognize all past service costs in OCI. Similarly, at the end of 04, the fund recognized the change in the ABO ending balance from a revaluation of \$34,000 as given in OCI.

QUESTION III - Accounting for Income Taxes (18 Marks)

Section A

Bluehaven Inc., a boat manufacturer located in Sherbrooke, Quebec, adopted PE GAAP upon its incorporation for its accounting policies and accounts for its corporate income tax using the future income tax method. The income tax rate for all years is 30%. In 2010 a loss for tax purposes of \$156,000 was incurred of which \$126,000 is available to carryforward to future years and it is more likely than not to be fully realized in the loss carryforward period.

The following data for the first two years of operations follow:

	<u>2011</u>	<u>2012</u>
Pretax accounting income	\$160,000	\$205,000

Amounts giving rise to timing difference between accounting and taxable income:

1) Estimated warranty expense (included in pretax accounting income) for a 3-year warranty	15,000	16,000
Cash payments on warranties for 2011 sales	10,000	2,000
Cash payments on warranties for 2012 sales	0	11,000
2) Rent revenue collection (2 year lease, is received in advance)	12,000	
Rent revenue included in accounting income	6,000	6,000
3) Gross profit on installment sales on delivery basis included in accounting income	175,000	230,000
Gross profit based on cash collections-2011 sales	65,000	110,000
-2012 sales	0	75,000
4) Fine due to unlawful dumping included in accounting Income, not tax deductible	35,000	0

Required:

- Compute income taxes payable for 2011 and 2012 and prepare the appropriate journal entries to record these amounts.
- For the timing differences identified above, prepare the journal entry/entries required for each year.
- Prepare the section of the income statement for 2011 and 2012 including Net income before income tax, income taxes, and Net income after income tax.
- Show how the future tax balance would be shown on the balance sheet as at 2011 year end only.

Section B

Pharmacorp Inc., experienced a loss in 2010. A permanent difference (a non-tax deductible \$16,000 fine) was considered in the calculation of the 2009 taxable income. The company reported taxable income (loss) for 2009 through 2012 as follows:

	2009	2010	2011	2012
Taxable income (loss)	\$16,000	(\$64,000)	\$40,000	\$20,000
Tax rate	34%	34%	37%	37%

All tax rates were enacted in 2009. There were no other timing differences or permanent differences in 2009 through 2012. PI reports under PEGAAP, future income tax method.

Required:

Prepare the journal entries to record income taxes for the years 2009 through 2012 assuming the company met the requirement of more likely than not to generate sufficient taxable income in the carryforward period.

SOLUTION: QUESTION III - Accounting for Income Taxes (18 Marks)

Section A

A]

	<u>2011</u>	<u>2012</u>
Accounting income	\$160K	\$205K
Warranty expense	+15K	+16K
Warranty paid	-10K	-13K
Rent revenue	+6K	-6K
Instalment sales- acctng	-175K	-230K
Instalment sales-cash	+ 65K	+185K
Perm difference- fine	<u>+35K</u>	

Taxable income before LCF	96K	157K
Loss carry forward (126K)	<u>(96K)</u>	<u>(30K)</u>
Taxable income	<u>0</u>	<u>127K</u>

Taxes payable current	0	38.1K (30%)
-----------------------	---	-------------

B]

Prov-I/T-C	0	38.1K	
I/T payable		0	38.1K

Use of LCF:

Prov-I/T-F (96K*0.3)	28.8K		9K (30K*0.3)
FIT asset		28.8K	9K

Warranty:

FIT asset (5K * 0.3)	1.5K		0.9K
Prov-I/T-F		1.5K	0.9K

Rent:

FIT asset (6K*0.3)	1.8K		
Prov-I/T-F		1.8K	
Prov-I/T –F			1.8K
FIT asset			1.8K

Instalment sales

Prov-I/T-F (110K*0.3)	33.0K		13.5K
FIT liab		33.0K	13.5K

c)			2011		2012
	NIBT		\$160K		\$180K
	Less taxes:				
		-C	0	38.1K	
		-F	<u>58.51K</u>	23.4	<u>61.5K</u>
	NIAT		<u>\$101.5K</u>		<u>\$143.5K</u>

D) PE GAAP- show FIT asset and liability as offsets within classification to current or long-term

		<u>FIT asset</u>	<u>FIT liability</u>	
(LCF) 31/12/11= 30K * 0.3 =		9K (current)		
(warranty)	=	0.6 (long term)		
(warranty)	=	0.9 (current)		
(rent)	=	1.8K (current)		
(install sales)	=		<u>33K (current)</u>	
		11.7K (current)	33K (current)	= net liab 21.3K
		<u>0.6K (long term)</u>	<u>0</u>	= net asset 0.6
Total		12.3K	<u>33K</u>	= net liab 20.7K

Section B

2009	Prov.-I/T- C (16K*0.34)	\$5,440	
	Income tax payable		\$5,440
2010	I/T recoverable (16K * 0.34)	\$5,440	
	FIT asset (48K * 0.37)	17,760	
	Prov-I/T-F		\$23,200
2011	Prov-I/T- F (40K * 0.37)	\$14,800	
	FIT asset		\$14,800
2012	Prov-I/T- F (8K * 0.37)	\$2,960	
	FIT asset (8 * 0.37)		\$2,960
	Prov- I/T – C (12K *0.37)	\$4,440	
	I/T payable		\$4,440

QUESTION IV - Accounting for Leases (16 Marks)

Concord Corporation leased a construction crane to Vanier Construction on January 1, 2011. The following information relates to the lease agreement and the leased asset:

Cost of the crane	\$100,000
Concord's normal selling price for similar cranes	\$146,913
Useful life of the crane	10 years
Lease term	7 years
Estimated salvage value	\$ 4,000
Estimated residual value at the end of the lease (unguaranteed)	\$ 10,000
Lease instalment, payable December 31	\$ 31,200
Lessor's implicit rate known to the lessee	12%
Lessee's incremental borrowing rate	15%

The crane will revert back to the lessor at the end of the lease term, title does not pass at anytime to the lessee, and there are no options for a bargain purchase. Both companies use the straight-line amortization method, both have December 31 year ends and both have adopted IFRS. The lessor agrees to bear all executory costs

Required: Preparing an amortization table for the lease would help you answer these questions more accurately. Use the information given above, **unless indicated otherwise**, to answer the following EIGHT (8) questions. Where Journal Entries are asked for but in your opinion, they are not necessary, you are required to state that specifically as part of your answer.

1. Classify the lease from the viewpoint of both corporations giving specific reasons for your answer.
2. Prepare all related journal entries for the lease as at January 1, 2011 for -
 - (a) the lessor corporation;
 - (b) the lessee corporation.
3. Prepare all related journal entries for the lease as at December 31, 2011 for -
 - (a) the lessor corporation;
 - (b) the lessee corporation.
4. Prepare the entry for the lessee upon the end of the lease period. However, assume the entry for the payment of the lease instalment has already been made and that is not required.

Questions 5-6, and 7, 8 are independent of each other

5. Assume for this **Question and Question 6 ONLY** that the lease agreement contained a guarantee from the lessee for the market value of the leased asset being returned to be \$10,000. Determine the amount at which the lease will be capitalized on January 1, 2011 by the
 - a] lessee.
 - b] lessor.
6. In **Question 5** above, prepare the entry required to be made by the lessee upon the return of the crane at the end of the lease term, assuming that the market value was \$7,200.
7. Assume for this **Question ONLY**, that the lease agreement contained an option for the lessee to

purchase the asset at a bargain price of \$10,000. Determine the amount

- a) at which the crane under lease would be capitalized on January 1, 2011 by the lessee.
 - b) at which the lease will be capitalized [net investment in the lease of the crane] on January 1, 2011 by the lessor.
 - c) of the amortization on the leased asset which will be recorded by the lessee on December 31, 2011.
8. Assume for this **Question ONLY** that both parties followed PE GAAP and also that leasing to the lessee was a high credit risk for the lessor. Prepare the entry/entries necessary for
- a) the lessor on January 1, 2011 and on December 31, 2011;
 - b) the lessee on January 1, 2011 and on December 31, 2011.

SOLUTION: QUESTION IV - Accounting for Leases (16 Marks)

1. Satisfies: a) Lease covers major part of asset's useful life:
7/10 years = 70%

- b) PV of MLP is substantially all of the fair value
 $\$31,200 \times 4.56376 / \$146,913 = 97\%$

Concord [Lessor] should classify the lease as a Manufacturer/Dealer type lease;
 Vanier [Lessee] should classify the lease as a Finance type lease.

2. a)	Lease Property Receivable	146,913	
	Cost of goods sold [100,000 - 4524]	95,476	
	Sales [146,913 - 4,524]		142,389
	Inventory		100,000

OR

	GIL	228,400	
	Cost of goods sold [100,000 - 4524]	95,476	
	Sales [146,913 - 4,524]		142,389
	Inventory		100,000
	Unearned interest		81,487

- b) Lessee capitalizes the lease at \$142,389 [$\$31,200 \times 4.56376$]
 Leased Equipment 142,389
 Lease Obligation 142,389

3. Lessor:

	Cash	31,200	
	Interest revenue		17,630
	Lease Property Receivable		13,570
	Cash	31,200	
	Unearned interest	17,630	
	Interest revenue		17,630
	GIL		31,200

Lessee:

	Interest Xp [0.12 x 142,389]	17,087	
	Lease obligation		14,113
	Cash		31,200
	Amortization Xp	20,341	
	Acc. Depreciation [Leased Equipment]		20,341
	[$\$142,389/7$]		

4. The leased crane is returned. No Journal Entry.

OR

	Acc. Depreciation	142,389	
	Leased Equipment		142,389

5. a] Lessee will capitalize the property at \$146,913 [$142,389 + 4,524$] which would include the present value of the guaranteed salvage value.

b] There will be no difference in the amount capitalized by the lessor.

6.	Lease Obligation	10,000	
	Leased Equipment		10,000
	Loss on Leased Equipment	2,800	
	Cash		2,800

7. a] Lessee will capitalize the property at \$146,913 [$142,389 + 4,524$] which would include the present value of the guaranteed salvage value.

b] There will be no difference in the amount capitalized by the lessor.

c] The amortization Xp recorded would now be \$14,691 [$146,913/10$]

8. a] **Lessor**
January 1 - No Journal Entry

December 31		
Cash	31,200	
Rent revenues		31,200

- b] **Lessee**
January 1 - No Journal Entry

December 31		
Rent expenses	31,200	
Cash		31,200

QUESTION V - Earnings Per Share (18 Marks)

Section A

Simple Solutions, Inc., reported the following capital structure on January 1, 2X11:

- ◆ 500,000 **common shares** authorized; 250,000 issued and outstanding;
- ◆ 10,000 non-cumulative **Preferred Shares A**, issued and outstanding; each share entitled to dividends of \$3.00 per annum;
- ◆ 100,000 \$100 cumulative **Preferred Shares B**, issued and outstanding, entitled to dividends of 4% per annum; and
- ◆ **Retained Earnings** \$3,455,000

During the year, the company reported the following equity transactions:

March 11, 2011 - declared and issued a 2-for-1 stock split;
July 1, 2011 - issued 70,000 additional common shares;
September 1, 2011 - repurchased 60,000 common shares in the market and cancelled them;
October 1, 2011 - issued 30,000 common shares to the public.

The company reported a net income of \$3,300,000 and was subjected to a 25% tax rate. Simple Solutions declared dividends totaling \$500,000 on December 15, 2010 and payable on January 15, 2011. No dividends were declared for 2011.

Required:

Calculate the basic EPS which Simple Solutions must report for the year 2X11. Indicate and identify clearly in your answer, the income effect and the weighted average shares for the year, required for your computation.

Section B

At the end of 20X2, the records of Great Accounting Solutions, Inc., (**GAS**), (which reports under IFRS) showed the following:

- ◆ Common shares, authorized 500,000 shares, issued and outstanding 200,000 shares, average market price in 20X2 was \$14.00 per share.
- ◆ A 10% common stock dividend was distributed to shareholders on November 1, 20X2.
- ◆ 5%, Non-cumulative Preferred stock-class A- 10,000 shares, par \$100, and each convertible into 7 common shares, outstanding throughout the year.
- ◆ 6%, Cumulative and non-convertible Preferred stock-class B- 20,000 shares, par \$100, outstanding throughout the year.
- ◆ Bonds payable, Series A- 5%, \$100,000 at par, each \$1,000 bond is convertible to 27 shares of common stock, due 20X6.
- ◆ Bonds payable, Series B- 7%, \$500,000, each \$1,000 bond is convertible to 80 shares of common stock, due 20X5, book value of bonds payable at end of 20X1 = \$515,000 to yield 6.5%.
- ◆ Dividends on all shares were declared and paid during the year.
- ◆ Options, Series A, to purchase **GAS**' common stock outstanding during the year on 10,000 shares for \$15 each.
- ◆ Options, Series B, to purchase **GAS**' common stock outstanding during the year on 21,000 shares for \$12 each.
- ◆ Average tax rate for 20X2 = 40%.
- ◆ Net income after tax for 20X2 was \$302,000.

Required: Ignore the equity component of the conversion option for the bonds..

- a) Determine the basic EPS for the company for the year, 20X2.
- b) Show in a well formatted schedule the income effect, share effect, and the incremental EPS for each of the aforementioned securities that is convertible into common shares. Rank each security by order of its dilutiveness and indicate if it is dilutive (D) or non-dilutive (ND) for purposes of calculating the diluted EPS.
- c) Determine **GAS**' diluted EPS for the year ended December 31, 20X2.

SOLUTIONS: QUESTION V - Earnings Per Share (18 Marks)

Section A

Date	Activity	Shares`O/S	Period Factor	Split	Average
Jan. 1–Mar. 1	Opening balance	250,000	2/12	2	83,333
Mar 1 - July 1		500,000	4/12		166,667
July 1 - Sept 1	Issued 70,000 shares	570,000	2/12		95,000
Sept 1 - Oct.1	Repurchased 60,000 shares	510000	1/12		42,500
Oct. 1 - Dec. 31	Issued 30,000 shares	540000	3/12		135,000
Weighted Average Number of Common Shares					522,500

ALTERNATE

Date	Activity	Shares`O/S	Period Factor	Split	Average
Jan. 1	Opening balance	250,000	1		250,000
Mar 1	Split	250,000	1		250,000
July 1 - Sept 1	Issued 70,000 shares	70,000	0.5		35,000
Sept 1 - Oct.1	Repurchased 60,000 shares	60000	0.333333		(20,000)
Oct. 1 - Dec. 31	Issued 30,000 shares	30000	0.25		7,500
Weighted Average Number of Common Shares					522,500

Income Available To Common Shareholders:

Net Income, 2011	\$3,300,000
Noncumulative Preferred Shares Dividends A	-0-
Cumulative Preferred Shares Dividends [100,000 x 100 x 0.04]	<u>(400,000)</u>
Available To Common Shareholders	<u>\$2,900,000</u>

Basic EPS [2,900,000/522,500]

\$5.55

Section B

a) Income Available To Common Shareholders:

Net Income, 2011	\$302,000
Noncumulative Preferred Shares Dividends [1,000,000 x 0.05]	(50,000)
Cumulative Preferred Shares Dividends [2,000,000 x 0.06]	<u>(120,000)</u>
Available To Common Shareholders	<u>\$132,000</u>

Weighted Average Number of Common Shares

200,000

Basic EPS [132,000/200,000]

\$0.66

b) Incremental EPS

Potential Dilutive Securities	Income Effect	Share Effect	Incremental EPS	Rank
Convertible Preferred Shares	$\$1,000,000 \times 5\% = \$50,000$	$(10,000 \times 7) = 70,000$	$\$50,000 / 70,000 = \0.71	AD
Stock Options A	Exercise price (\$15.00) > average market price (\$14.00)	NA	therefore antidilutive	AD
Stock Options B	-0-	$21,000(1 - \$12/\$14) = 3,000$	-0-	1D
Convertible Bonds A	$(\$100,000 \times .05) \times (1 - 40\%) = \$3,000$	$\$100,000 / \$1,000 \times 27 = 2,700$ shares	$\$3,000 / 2,700 = \1.11	AD
Convertible Bonds B	$(\$515,000 \times .065) \times (1 - 40\%) = \$20,085$	$\$500,000 / \$1,000 \times 80 = 40,000$ shares	$\$20,085 / 40,000 = \0.50	2D

c) Diluted EPS:

	Income	Shares	EPS
Basic EPS	132,000	200,000	0.66
Stock Option B	-0-	3,000	
	132,000	203,000	\$0.65
Bonds B	<u>20,085</u>	<u>40,000</u>	
Diluted EPS	152,085	243,000	\$0.63

Both Convertible Bonds A and Stock Options A are antidilutive and are excluded.