Practice Exam 1 - Financial Accounting for IB/E&BE

Exercise 1

On the balance sheet as of December 31, 2014, Groningen Robotics Corporation reported its stockholders' equity as follows:

Preferred Stock, 9% noncumulative, 100 par value, 10,000 shares authorized, 5,000 shares issued and outstanding	\$500,000
Common Stock, \$5 par value, 1,500,000 shares authorized, 600,000 shares issued and outstanding	3,000,000
Additional Paid-in Capital-Common Stock	1,250,000
Retained Earnings	2,967,000
Total stockholders' equity	\$7,717,000

During 2015, the following transactions occurred:

Feb 12	Issued 30,000 shares of its \$5 par value common stock for \$750,000 cash.
Feb 22	Purchased 5,000 shares of its own stock for \$30 per share, the current market
	price.
Feb 28	Issued 10,000 shares of its \$5 par value common stock in exchange for land
	and a building. The building is estimated to have a market value of \$170,000.
	Market value of stock is \$30. Management records land at market value of
	stock minus market value of building
March 9	Sold 1,000 shares of treasury stock purchased on Feb 22 for \$31 per share
April 30	Declared cash dividend for a full year to preferred stockholders and a stock
	dividend for common stockholders. Dividend to preferred stockholders is to be
	paid on June 30 2015 to shareholders of record on May 1, 2015. Declared &
	issued a 10 percent stock dividend (Market value of the stock was \$35.00 on
	April 30 and \$28.00 on June 30).
May 1	Sold 2,500 shares of treasury stock purchased on Feb 22 for \$30 per share.
May 1	Date of record
May 7	Sold 1,500 shares of treasury stock purchased on Feb 22 for \$27 per share.
June 30	Distributed the dividend.
Sep 1	Declared a 2-for-1 stock split.

Question A

Record the above transactions by preparing the appropriate journal. Skip a line between the different journal entries and state explicitly if no journal entry is needed. You are required to use accounts provided in the chart added at the end of this exam only.

	Groningen Robotics Corporation, Journal				
Date	Account Debit		Credit		
•			_		

Question B

Prepare the Statement of Stockholders' Equity as it should appear on December 31, 2015. There was no profit or loss to Groningen Robotics during 2015.

Groningen Robotics Statement of Stockholders' Equity For the Year Ended December 31, 2015

Contributed Capital		
Preferred Stock, 9% noncumulative, <u>\$100</u> par value, 10,000 sha authorized, <u>5,000</u> shares issued and outstanding	\$	
Common Stock, \$par value, 1,500,000 shares authorized,shares issued and outstanding	\$	
Additional Paid-In Capital, Common Stock		
Paid-in Capital, Treasury Stock, Common		
Total Contributed Capital		\$
Retained Earnings		
Total Contributed Capital & Retained Earnings		\$
Less: Treasury Stock		

\$

Question C

Total Stockholders' Equity

Issuing common and preferred stock generally has been popular among corporations. However, some companies have bought back their common stock. What are 3 reasons why a company would buy back its own shares?

Question D

Compute the book value per share of preferred stock and the book value per share of common stock. Assume a call value of \$105 for preferred stock. Round your answer to the nearest cent.

Question E

Repeat the above calculations (assumed that total stockholders' equity of question D doesn't change) and now assume that the preferred stock is cumulative and has two years' dividends in arrears. Compute the book value per share of preferred stock and the book value per share of common stock. Again, provide your answer rounded to cents.

Exercise 2

Star Company is a trading company specialized in buying and selling plastic figurines based on movie characters. The financial year starts on January 1 and ends on December 31. Star Company's beginning balance sheet (in euros) on January 1, 2015, is as follows:

Balance sheet on January 1, 2015 (in euros)

Building	8,500,000	Mortgage payable	4,000,000
Accumulated depreciation -	(700,000)	Accounts payable trade	440,000
building			
Trucks	420,000	Salaries payable	40,000
Accumulated depreciation -	(204,960)	Interest payable	100,000
trucks			
Trade inventory	820,000	Common Stock	200,000
Accounts receivable (net)	650,000	Additional paid in	3,800,000
		capital	
Cash	1,134,000	Retained earnings	2,039,040
Total	10,619,040	Total	10,619,040

The information provided in the footnotes is as follows:

Star Company uses the straight-line method to depreciate its building, and the double-declining balance method to depreciate its trucks. The trucks have an expected useful life of ten years and no residual value. The building has an expected useful life of twenty years and a residual value of € 5,000,000.

The interest on the mortgage is paid annually on June 30. The principal of the mortgage will be repaid in full on December 31, 2030.

All purchases and sales are on credit.

Accounts receivable trade (net) consists of the following items:

Accounts receivable trade (gross)	730,000
Allowance for uncollectible accounts	(80,000)
Accounts receivable trade (net)	650,000

During the year, write-offs are equal to \leq 54,000. Star Company uses the accounts receivable aging method to estimate the Allowance for uncollectible accounts. An analysis of the Accounts receivable shows that \leq 97,000 may be uncollectible.

Gross sales during 2015 are € 6,400,000. During the year, total sales discounts are € 450,000. € 300,000 worth of sales were returned to Star Company during the year.

The table below gives an overview of all cash receipts and cash expenditures during 2015 (in euros).

Schedule of cash receipts and expenditures over 2015 (in euros)

Receipts	E	xpenditures		
Payments on accounts receivable 3,825,00	0 P	ayments on accounts	payable	4,050,000
	S	alaries paid		150,000
	In	terest paid	•	

On December 31, 2015, the amounts of the following balance sheet items are given:

Trade inventory 730,000
Accounts payable trade 380,000
Salaries payable 44,000

Question A

Use the information provided to determine the purchase date of the trucks. Use a calculation to support your answer.

Question B

Complete the schedule of cash receipts and expenditures over 2015 and calculate the Cash balance on December 31, 2015.

Question C

Calculate the uncollectible accounts expense over the year 2015 and determine the Allowance for uncollectible accounts balance on December 31, 2015.

Question D

Calculate the purchase of trade inventory over the year 2015.

Question E

Calculate the cost of goods sold over the year 2015.

Question F

Complete the income statement for 2015 and show your calculations.

Income statement, 2015 (in euros)

Cost of goods sold	Gross sales
Salaries expense	Sales discounts
Depreciation expense building	Sales returns and allowances
Depreciation expense truck	
Interest expense	
Uncollectible accounts	
expense	
Net income	

Question G

Calculate the Accounts receivable trade (net) balance on December 31, 2015.

Ouestion H

Complete the balance sheet on December 31, 2015 and show your calculations.

Balance sheet on December 31, 2015 (in euros)

Building	Mortgage payable	
Accumulated depreciation - building	Accounts payable trade	
Trucks	Salaries payable	
Accumulated depreciation - trucks	Interest payable	
Trade inventory	Common Stock	
Accounts receivable (net)	Additional paid in capital	
Cash	Retained earnings	
Total	Total	

Question I

Prepare the cash flow statement from operating activities according to the indirect method for the year 2015.

Cash flows from operating activities over 2015 (in euros)			

Question J

Calculate the receivable turnover at the end of the year 2015.

Chart of accounts exercise 1 (in alphabetical order)

Accounts Payable

Accounts Receivable

Additional Paid-in Capital, Common Stock

Additional Paid-in Capital, Preferred Stock

Building

Cash

Cash Dividends

Common Stock

Common Stock Distributable

Dividends Payable

Land

Paid-in Capital, Treasury Stock

Preferred Stock

Retained Earnings

Stock Dividends

Treasury Stock

Answers practice exam 1 – Financial Accounting for IB/E&BE

Exercise 1

Question A

	Groningen Robotics Corpora		
Date	Account	Debit	Credit
Feb 12	Cash	750,000	
	Common Stock		150,000
	Additional Paid-in Capital,		600,000
	Common Stock		
Feb 22	Treasury Stock, Common	150,000	
	Cash		150,000
Feb 28	Land	130,000	
	Building	170,000	
	Common Stock		50,000
	Additional Paid-in Capital,		250,000
	Common Stock		,
March 9	Cash	31,000	
	Treasury Stock, Common		30,000
	Paid-in Capital, Treasury Stock		1,000
			,
April 30	Cash Dividends	45,000	
	Dividends payable	,	45,000
			,
	Stock Dividends	2,226,000	
	Common Stock	, ,	318,000
	Additional Paid-in Capital,		1,908,000
	Common Stock		, ,
	(600,000+30,000-5,000+10,000		
	+1,000)= 636,000 shares outstanding		
May 1	Cash	75,000	
	Treasury Stock, Common		75,000
May 1	No entry		
May 7	Cash	40,500	
-	Paid-in Capital, Treasury Stock	1,000	
	Retained Earnings	3,500	
	Treasury Stock, Common	,	45,000
June 30	Dividends Payable	45,000	
	Cash	,	45,000
Sep 1	No entry or the following only:		
i	The 703,600 shares of \$5 par value of		
	common stock issued and outstanding		
	were split 2 for 1, resulting in 1,407,200		
	shares of \$ 2.5 par value common stock		

issued and outstanding	
2*(600,000+30,000+10,000+63,600)	
=1,407,200 shares	

Question B

Groningen Robotics Statement of Stockholders' Equity For the Year Ended December 31, 2015

Contributed Capital

\$ Preferred Stock, 9% noncumulative, \$100 par value, 10,000 shares authorized, 5,000 shares issued and outstanding Common Stock, \$_2.5_ par value, 1,500,000 shares \$3,518,000 authorized, _____1,407,200_____ shares issued and outstanding 4,008,000 Additional Paid-In Capital, Common Stock 0 Paid-in Capital, Treasury Stock, Common 7,526,000 \$ **Total Contributed Capital** 692,500 **Retained Earnings Total Contributed Capital & Retained Earnings** \$8,718,500 Less: Treasury Stock 0 Total Stockholders' Equity \$8,718,500

Calculations

No of shares of common stock at year end = (600,000 +30,000 +10,000 + 63,600) * 2
=1,407,200

Additional Paid-in Capital-Common Stock = 1,250,000+600,000+250,000+1,908,000
=4,008,000

Retained Earnings = 2,967,000 - 45,000 - 2,226,000 - 3,500
=692,500

Question C

A company may have several reasons for buying back its own shares:

- 1. It may have uses for the shares, such as for employee stock purchase plans or purchasing other companies.
- 2. To increase the price of the company's stock.
- 3. To increase earnings per share: With fewer shares outstanding, earnings per share should be higher. When the economy has been growing slowly, this is a way to accelerate the growth in earnings per share.

- 4. To reduce the cash that will have to be paid in the future for cash dividends. With fewer shares outstanding, less cash will have to be paid.5. Management feels that investing in the company's own stock is a sound idea because
- it is a good value.

Question	D
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	525,000	\$8,718,500
Less dividends in arrears (0 as it is noncumulative) Equity allocated to preferred stockholders Equity pertaining to common stockholders	<u> </u>	525,000 \$8,193,500
Book value per share of preferred stock (\$525,000 ÷ 5,000) Book value per share of common stock (\$8,193,500 ÷ 1,407,200)		\$105.00 \$5.82
	525,000 90,000	\$8,718,500
Equity pertaining to common stockholders	<u> </u>	615,000 \$8,103,500
Book value per share of preferred stock (\$615,000 ÷ 5,000) Book value per share of common stock (\$8,103,500 ÷ 1,407,200)		\$123.00 \$5.76

Exercise 2

Question A

The depreciable cost of the trucks is 420,000. Accumulated depreciation on Jan. 1, 2015, is 204,960. This means that the carrying value at that time is 215,040. Since the expected useful life is equal to ten years and the company uses the double declining balance, the annual depreciation rate is 20%. One year after the purchase, the carrying value is 420,000 * 0.80 = 336,000. Two years after the purchase the carrying value is 336,000 * 0.80 = 268,800, and after three years the carrying value is 268,800 * 0.80 = 215,040. Hence, the purchase date is **January 1, 2012**.

Question B

Interest paid: 4,000,000 * 5% = 200,000 (1 credit)Cash balance 31/12/2015: 1,134,000+ 3,825,000 - 4,050,000 - 150,000 - 200,000 = 559,000

Question C

Uncollectible accounts expense: the target balance for the allowance is 97,000. Beginning balance is 80,000, write-offs are 54,000. This means that the expense will need to be equal to 97,000 - 80,000 + 54,000 = 71,000

Ending balance: aging method is used, so given: 97,000

Question D

Accounts Payable beginning + Purchases – Payments = Accounts Payable ending 440,000 + Purchases - 4,050,000= 380,000 Purchases = 3,990,000

Question E

Trade inventory beginning + Purchases – COGS = Trade inventory ending 820,000 + 3,990,000 - COGS = 730,000 Cost of goods sold = 4,080,000

Question F

The income statement for 2015 looks as follows

Cost of goods sold	4,080,000	Gross sales	6,400,000
Salaries expense	154,000	Sales discounts	(450,000)
Depreciation expense building	175,000	Sales returns and allowances	(300,000)
Depreciation expense truck	43,008		
Interest expense	200,000		
Uncollectible accounts	71,000		
expense			
Net income	926,992		

<u>Calculations</u>

Sales (and discounts and returns & allowances): given

Cost of goods sold: see question E

Salaries expense: salaries paid + change in salaries payable: payable has gone up, so this difference needs to be added to salaries paid: 150,000 + (44,000 - 40,000) = 154,000

Depreciation building: depreciable cost is 8,500,000 - 5,000,000 = 3,500,000. The depreciation rate is 5%, so depreciation expense is 0.05 * 3,500,000 = 175,000

Depreciation expense truck: The company uses the double-declining balance method, estimated life is ten years. This means that the annual depreciation rate is 20%. The carrying value of Trucks at the beginning of the year is 215,040. This means that depreciation expense is $0.2^* 215,040 = 43,008$

Interest expense: 4,000,000 * 5% = 200,000

Uncollectible accounts expense: see question C

Question G

Beginning balance for acc. rec. trade gross is 730,000 (given). During the year, acc. rec. trade gross was affected by net sales (5,650,000), payments on acc. rec. (3,825,000), and the write-offs (54,000). The ending balance for acc. rec. trade gross is therefore 730,000 + 5,650,000 - 3,825,000 - 54,000 = 2,501,000.

The ending balance for the Allowance is 97,000 (given), so the ending balance for acc. rec. trade (net) is 2,501,000 - 97,000 = 2,404,000.

Question H

Building	8,500,000	Mortgage payable	4,000,000
Accumulated depreciation - building	(875,000)	Accounts payable trade	380,000
Trucks	420,000	Salaries payable	44,000
Accumulated depreciation - trucks	(247,968)	Interest payable	100,000
Trade inventory	730,000	Common Stock	200,00
Accounts receivable (net)	2,404,000	Additional paid in capital	3,800,000
Cash	559,000	Retained earnings	2,966,032
Total	11,490,032	Total	11,490,032

Calculations

Acc. depr. building and trucks: beginning balance plus answers to question D and E

Trade inventory: given

Accounts receivable trade (net): see question G

Cash: see question B

Mortgage payable: remains the same; 4,000,000

Accounts payable trade: given

Salaries payable: given

Interest payable: 6/12 * 5% * 4,000,000 = 100,000

Common stock / additional paid in capital: given

Retained earnings: beginning + net income = 2,039,040+ 926,992 = 2,966,032

Question I

Cash flows from operating activities over 2015 (in euros)

Net income	,	926,992
Adjustments to reconcile net income to net		
cash		
Depreciation building	175,000	
Depreciation trucks	43,008	
Changes in current assets and current		
liabilities		
Decrease in trade inventory	90,000	
Increase in accounts receivable	-1,754,000	
Decrease in accounts payable	-60,000	
Increase in salaries payable	+4,000	
Net cash flows from operating activities	-575,000	

Question J

Receivable turnover = Net revenue / net average accounts receivable = 5,650,000 / ((650,000 + 2,404,000) / 2) = 3.70