

**Bangladesh Open University**  
BBA Program  
Semester: 201 (5<sup>th</sup> Level)

**Course: Industrial and Company Law**

**Due on: May 13, 2022**

**Instructions**

- Answer all questions in your own handwriting on A4 size white paper.
- Fill-in the cover page of your assignment with care.
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**Questions**

1. (a) What is meant by memorandum of company limited by guarantee?  
(b) Discuss the rules regarding the alternation of memorandum.
2. (a) Define transfer of share.  
(b) Discuss the rules regarding the condition applicable to managing agents.  
(c) Explain the removal procedure of directors in a public limited company.
3. (a) Define prospectus. What are the interpretations of provision relating to prospectus?  
(b) Explain the circumstances in which the company may be wound up by court.
4. (a) According to Bangladesh Labor Code, 2006 what are the procedures for the payment of maternity benefits.  
(b) State the case in which employment of woman worker is probated. Do you think this is justifiable?

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**Questions**

1. (a) Describe the mode of winding up.  
(b) Explain the circumstance in which the company may be wound up by voluntarily.
2. (a) Explain the rules regarding casual leave, sick leave and annual leave with wages.  
(b) Discuss the provision regarding deductions for absence and deductions for loss.
3. (a) Distinguish between collecting bargaining agent and conciliator.  
(b) Explain the conciliation process before and after the notice of strike or lockout.
4. (a) According to Bangladesh Labor Code, 2006 what are the procedures for the payment of maternity benefits.  
(b) State the case in which employment of woman worker is probated. Do you think this is justifiable?
5. (a) Explain the conciliation process before and after the notice of strike or lockout.  
(b) Discuss the rules regarding time of payment for wages.

শ্রীন অব বিজ্ঞান

## Bangladesh Open University

### BBA Program

### Semester: 201 (5<sup>th</sup> Level)

Course Title: Financial Management and Policy

Due on: May 13, 2022

#### Instructions

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#### Questions

1. (a) Financial statements are optional accounting reports issued periodically by a firm which present information on the past performance of the firm, a summary of the firm's assets and the financing of those assets, and a prediction of the firm's future performance.” Do you agree? Explain.

(b)

**Luther Corporation**  
**Consolidated Income Statement**  
**Year ended December 31 (in \$millions)**

	2016	2015
Total sales	610.1	578.3
Cost of sales	-500.2	-481.9
Gross profit	109.9	96.4
Selling, general, and administrative expenses	-40.5	-39.0
Research and development	-24.6	-22.8
Depreciation and amortization	-3.6	-3.3
Operating income	41.2	31.3
Other income	--	--
Earnings before interest and taxes (EBIT)	41.2	31.3
Interest income (expense)	-25.1	-15.8
Pretax income	16.1	15.5
Taxes	-5.5	-5.3
Net income	10.6	10.2

Price per share	\$16	\$15
Shares outstanding (millions)	10.3	8.0
Stock options outstanding (millions)	0.4	0.1
Stockholders' Equity	126.6	63.6
Total Liabilities and Stockholders' Equity	533.1	386.7

Refer to the income statement above. For the year ending December 31, 2016 Luther's earnings per share is?

(c)

**Luther Corporation**  
**Consolidated Income Statement**  
**Year ended December 31 (in \$millions)**

	<b>2016</b>	<b>2015</b>
Total sales	610.1	553.6
Cost of sales	-500.2	- 357.1
Gross profit	109.9	196.5
Selling, general, and administrative expenses	-40.5	- 38.8
Research and development	-24.6	- 21.8
Depreciation and amortization	-3.6	- 3.4
Operating income	41.2	132.5
Other income	--	--
Earnings before interest and taxes (EBIT)	41.2	132.5
Interest income (expense)	-25.1	- 15.9
Pretax income	16.1	116.6
Taxes	-5.5	- 40.81
Net income	10.6	75.79
Price per share	\$16	\$15
Shares outstanding (millions)	10.2	8.0
Stock options outstanding (millions)	0.3	0.2
Stockholders' Equity	126.6	63.6
Total Liabilities and Stockholders' Equity	533.1	386.7

- (i) Refer to the income statement above. Luther's earnings before interest, taxes, depreciation, and amortization (EBITDA) for the year ending December 31, 2015 is?
- (ii) Refer to the income statement above. Luther's return on assets (ROA) for the year ending December 31, 2015 is?

2. (a) Should personal preferences for cash today versus cash tomorrow play a role in the net present value (NPV) decision-making process?
- (b) Under what situation can the net present value (NPV) profile be upward sloping?
- (c) Net present value (NPV) is usefully supplemented by internal rate of return (IRR), since IRR gives a good indication of the sensitivity of any decision made to changes in the discount rate.
- (d) Consider the following list of projects:

<b>Project</b>	<b>Investment</b>	<b>NPV</b>
A	\$405,000	\$18,000
B	600,000	90,000
C	375,000	60,000
D	450,000	6,000
E	525,000	30,000
F	225,000	30,000
G	240,000	27,000
H	600,000	60,000
I	150,000	12,000
J	270,000	30,000

You are given a budget of only \$1,800,000 to invest in projects. Which projects will you select, in what order will you select them, and why?

3. (a) Why do we use market values rather than book values in calculation of WACC?
- (b) Why do we use leverage if it increases the risk of a firm?
- (c) Assume the market value of Fords' equity, preferred stock and debt are \$7 billion, \$4 billion and \$10 billion respectively. Ford has a beta of 1.4, the market risk premium is 6% and the risk-free rate of interest is 4%. Ford's preferred stock pays a dividend of \$3 each year and trades at a price of \$25 per share. Ford's debt trades with a yield to maturity of 8.5%. What is Ford's weighted average cost of capital if its tax rate is 35%?
- (d) A firm is considering acquiring a competitor. The firm plans on offering \$160 million for the competitor. The firm will need to issue new debt and equity to finance the acquisition. You estimate the issuance costs to be \$10 million. The acquisition will generate an incremental free cash flow of \$20 million in the first year and this cash flow is expected to grow at an annual rate of 3% forever. If the firm's WACC is 13%, what is the value of this project?

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**Bangladesh Open University**  
**BBA Program**  
**Semester: 201 (5<sup>th</sup> Level)**

**Course Title: Financial Management and Policy**

**Due on: June 10, 2022**

**Instructions**

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**Questions**

1. (a) What considerations should managers have while deciding on firms' capital structure?
- (b) Financial leverage Max Small has outstanding school loans that require a monthly payment of \$1,000. He needs to purchase a new car for work and estimates that this will add \$350 per month to his existing monthly obligations. Max will have \$3,000 available after meeting all of his monthly living (operating) expenses. This amount could vary by plus or minus 10%.
  - a. To assess the potential impact of the additional borrowing on his financial leverage, calculate the DFL in tabular form for both the current and proposed loan payments using Max's available \$3,000 as a base and a 10% change.
  - b. Can Max afford the additional loan payment?
  - c. Should Max take on the additional loan payment?
- (c) Data-Check is considering two capital structures. The key information is shown in the following table. Assume a 40% tax rate.

Source of capital	Structure A	Structure B
Long-term debt	\$100,000 at 16% coupon rate	\$200,000 at 17% coupon rate
Common stock	4,000 shares	2,000 shares

- a. Calculate two EBIT-EPS coordinates for each of the structures by selecting any two EBIT values and finding their associated EPS values.
- b. Plot the two capital structures on a set of EBIT-EPS axes.

- c. Indicate over what EBIT range, if any, each structure is preferred.
  - d. Discuss the leverage and risk aspects of each structure.
  - e. If the firm is fairly certain that its EBIT will exceed \$75,000, which structure would you recommend? Why?
2. (a) The Howe Company's stockholders' equity account follows:

Common stock (4,00,000 shares at \$4 par)	\$1,600,000
Paid-in capital in excess of par	1,000,000
Retained earnings	<u>1,900,000</u>
Total stockholders' equity	<u>\$4,500,000</u>

The earnings available for common stockholders from this period's operations are \$100,000, which have been included as part of the \$1.9 million retained earnings.

- a. What is the maximum dividend per share that the firm can pay? (Assume that legal capital includes all paid-in capital.)
  - b. If the firm has \$160,000 in cash, what is the largest per-share dividend it can pay without borrowing?
  - c. Indicate the accounts and changes, if any, that will result if the firm pays the dividends indicated in parts **a** and **b**.
  - d. Indicate the effects of an \$80,000 cash dividend on stockholders' equity.
- (b) Given the earnings per share over the period 2005 – 2012 shown in the following table, determine the annual dividend per share under each of the policies set forth in parts a through d.

Year	Earnings per share
2012	\$1.40
2011	1.56
2010	1.20
2009	- 0.85
2008	1.05
2007	0.60
2006	1.00
2005	0.44

- a. Pay out 50% of earnings in all years with positive earnings.
- b. Pay \$0.50 per share and increase to \$ 0.60 per share whenever earnings per share rise above \$0.90 per share for two consecutive years.
- c. Pay \$0.50 per share except when earnings exceed \$1.00 per share, in which case pay an extra dividend of 60% of earnings above \$1.00 per share.

- d. Combine the policies described in parts **b** and **c**. When the dividend is raised (in part b), raise the excess dividend base (in part c) from \$1.00 to \$1.10 per share.
- e. Compare and contrast each of the dividend policies described in parts a through d.



**Bangladesh Open University**  
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Semester: 201 (5<sup>th</sup> Level)

**Course: Entrepreneurship Development and Small Business Management**

**Due on: May 13, 2022**

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**Questions**

1. (a) What is meant by entrepreneur? How will you distinguish intrapreneur from entrepreneur?  
(b) Explain the main functions performed by the entrepreneurs.  
(c) State the objectives of entrepreneurship development programs in Bangladesh.  
(d) What are the environmental factors do influence the emergence and development of entrepreneurship? Explain.
2. (a) What is meant by entrepreneurial motivation? Explain the process of motivation.  
(b) Describe the Maslow's Need Hierarchy theory of motivation.  
(c) What are the factors behind the entrepreneurial growth in Bangladesh? Explain.
3. (a) Define small business. Explain its structural feature?  
(b) Discuss the types of small business.  
(c) Discuss the benefits and problems of buying.

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BBA Program  
Semester: 201 (5<sup>th</sup> Level)

**Course: Entrepreneurship Development and Small Business Management**

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**Questions**

1. (a) What do you mean by starting a new business? Describe the reasons for and against a new business.  
(b) Discuss the essentials of starting a new business.  
(c) Explain the stages of actions for starting a new business.
2. (a) Define franchising. Explain the purpose of franchising.  
(b) Describe the benefits and problems of franchising.
3. (a) What is small business plan? Why is a small business plan so essential? Explain.  
(b) Discuss the functions of small business plan.  
(c) Define the term 'project'. How will you classify the projects? Discuss.
4. (a) Describe the human involvement in different stages of small business.  
(b) Discuss the minimum information needed from accounting records for small business management.

**শুন্স অর বিজনেস**  
**Bangladesh Open University**  
BBA Program  
Semester 201 (5<sup>th</sup> Level)

**Course: Socio-Economic Profile of Bangladesh      Due on : 13 May 2022**

(Assignment is to be presented in own handwriting on A4 size white pages)

*Note: Answer all the questions and submit to the coordinator of your tutorial center on or before due date.*

1. What is the trend in overall economic growth in Bangladesh during the COVID 19 pandemic? Mention briefly the obstacles to economic growth in Bangladesh.
2. What do you mean by rural development? Mention the initiatives of the government and non-governmental organizations to uplift the economic condition of rural people of Bangladesh. “It is believed that non-governmental organizations’ initiative played greater role in rural development than government initiatives” – do you agree with the statement? Justify your answer.
3. Mention the root causes of unemployment in rural Bangladesh. How will you connect the rural unemployment and rural-urban migration issues? Specify some government initiatives targeting the rural unemployment in Bangladesh.
4. Describe the scope of women’s participation in productive activities in Bangladesh. Mention some policies of government for enhancing women’s participation in development activities. How the NGOs contribute to women empowerment?

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**Course: Socio-Economic Profile of Bangladesh      Due on : 10 June 2022**

(Assignment is to be presented in own handwriting on A4 size white pages)

*Note: Answer all the questions and submit to the coordinator of your tutorial center on or before due date.*

1. What do you mean by structural adjustment? What kind of structural adjustment policies undertook by Bangladesh government so far to make the people self-reliant?
2. What is privatization? Describe the role of privatization in the industrial development of Bangladesh.
3. What is globalization? Mention the main features of globalization. Describe the influences of globalization on Bangladesh economy during COVID 19 pandemic.
4. What is the trend in population growth in Bangladesh? How population growth in Bangladesh threatens the environment of Bangladesh? Mention the steps taken by Bangladesh government so far to reduce the environmental pollution in the country.
5. Mention some causes of environmental problems in Bangladesh. Describe the measures to control various types of environmental pollution in Bangladesh. Explain the role of NGOs for conserving the environment.
6. Recently, Sri Lanka suffers from economic crisis. Some people think that Bangladesh may suffer from the similar economic turmoil. Do believe that this type of propaganda got any merit? – Why?

## Bangladesh Open University BBA Program Semester: 201 (5<sup>th</sup> Level)

**Course Title: Business Statistics for Decision Making**

**Due on: 13 May 2022**

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### Questions

1. (a) What do you mean by the term probability? How does the concept of probability help decision maker to improve his decisions in business?
- (b) Explain the concept of conditional probability and Bayes' theorem.
- (c) A factory produces certain types of output by three machines. The respective daily production figures are: Machine X = 5000 units; Machine Y = 3500 units; and Machine Z = 6000 units. Past experience shows that 1.5% of the output produces by machine a is defective. The corresponding fractions of defectives for the other two machines are 1.2 and 2% respectively. An item is drawn at random from the day's production run and is found to be defective. What is the probability that it comes from the output of (i) machine X; ii) Machine Y; And iii) Machine Z.
- (d) A recent marketing survey tried to relate a consumer's awareness of a new marketing campaign with their rating of the product. Consumers rated their awareness as low, medium, or high, and rated the product as poor, fair, or good. The results are presented below.

		<i>Awareness</i>		
		Low	Medium	High
<i>Rating</i>	Poor	0.10	0.15	0.07
	Fair	0.06	0.11	0.06
	Good	0.07	0.11	0.27

Requirements:

- i) What is the probability that a consumer had both high awareness and thought the product was poor?

- ii) What is the probability that a consumer who had medium awareness ranked the product as fair or good?
- iii) What is the probability that a consumer who did not rank the product as poor had high awareness?
2. (a) what is an index number? Explain the term price relative, quantity relative and value relative with reference do a single commodity and deduce the factor reversal property.
- (b) what is Fisher ideal index? why is it called ideal? Show that it satisfies both the time reversal test as well as the factor reversal test.
- (c) Prepare price index numbers for 2015 with 2005 as base year from the following data by using (i) Laspeyres' (ii) Paasche's and (iii) Fisher's method. (Correct up to 4 places of decimal)

Article								
Year	I		II		III		IV	
	<i>P</i>	<i>Q</i>	<i>P</i>	<i>Q</i>	<i>P</i>	<i>Q</i>	<i>P</i>	<i>Q</i>
2005	2	8	6	10	4	20	2	5
2015	4	8	5	12	5	23	3	7

With the help of above data prove that the Time Reversal Test is satisfied by Fisher's formula, but not necessarily by the Laspeyres' and index numbers.

3. (a) What is business forecasting? what is the assumptions on which business forecasts are made describe the techniques of forecasting that are commonly employed by big business houses.
- (b) Consumption of monthly electric power in millions of Kw hours for street lighting in Dhaka city during 2001-2005 is given below:

Year	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
2001	318	281	278	250	231	216	223	245	269	302	325	347
2002	342	309	299	268	249	236	242	262	288	321	342	364
2003	367	328	320	287	269	251	259	284	309	345	367	394
2004	392	349	342	311	290	273	282	305	328	364	389	417
2005	420	378	370	334	314	296	305	330	356	396	422	452

Find out seasonal variation by the method of monthly averages.

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Semester: 201 (5<sup>th</sup> Level)

**Course Title: Business Statistics for Decision Making**

**Due on: 10 June, 2022**

1.
  - (a) Differentiate between 'sample' and 'population'. Point out their advantages and limitations.
  - (b) What is the difference between systematic random sampling and stratified random sampling?
  - (c) In a recent survey of high school students, it was found that the average amount of money spent on entertainment each week was normally distributed with a mean of \$52.30 and a standard deviation of \$18.23. Assume that these values are representative of all high school students.
    - i) What is the probability that for a sample of 25, the average amount spent exceeds \$60?
    - ii) The probability is 65% that the average spending of a sample of 25 randomly selected students will spend at least how much?
2.
  - (a) Define the standard error of statistic. How is it helpful in testing of hypothesis and decision-making?
  - (b) Differentiate the following pairs of concepts:
    - i) critical region and acceptance region
    - ii) null and alternative hypothesis
    - iii) one-tailed and two-tailed test
  - (c) An engineering research center claims that, through the use of a new computer control system, automobiles should achieve, on average, at least an additional 5 miles per gallon of gas. A random sample of 81 automobiles was used to evaluate this product. The sample mean increase in miles per gallon achieved was 4.5, and the sample standard deviation was 2.9 miles per gallon.
    - i) State the appropriate null and alternative hypotheses.
    - ii) Test the hypothesis at the 5% level.
    - iii) Find the  $p$ -value of this test, and interpret the results.
3.
  - (a) What is an analysis of variance? Explain the F-test? What are the assumptions of F-test?

- (b) A plastic manufacturer tests that tensile strength of different types of polythene material. A sample of three measurements is taken for each material type and data in kgs per square inch are as follows:

<i>Type I</i>	<i>Type II</i>	<i>Type III</i>
200	250	245
215	255	247
220	280	272

Determine, if the mean tensile is friend of the three different types of materials different significantly.