

**Bangladesh Open University**  
BBA Program  
Semester: 231 (5<sup>th</sup> Level)

**Course Title: Industrial and Company Law**

**Due on May 16, 2025**

**Instructions**

- Answer the 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) Define the Memorandum of Association and explain the different types of companies outlined within it.  
(b) What is the process for altering the Articles of Association?  
(c) Discuss the effect of converting shares into stock regarding the company's operations.
2. (a) Discuss the qualifications required for a director under the Companies Act.  
(b) What are the conditions under which a director may be removed from office?  
(c) Explain the role and limitations of the Managing Agent in a company.
3. (a) What are the different classifications of workers within an organization, and how are probation periods typically managed?  
(b) Explain the procedure for leave in relation to the service book of an employee. What is the procedure for retrenchment, and how is it related to the rights of workers?

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**Questions**

1. (a) What is a Prospectus, and why is its registration necessary in the context of a company's public offering?  
(b) Outline the matters that must be stated in a Prospectus.  
(c) Discuss the interpretation of provisions relating to a Prospectus under the Companies Act.
2. (a) Explain the different modes of winding up a company, distinguishing between voluntary and court-ordered winding up.  
(b) What are the circumstances under which a company cannot pay its debts?  
(c) Discuss the court's power to stay the winding-up process and the legal procedures involved.
3. (a) What are the conditions under which a woman worker is entitled to maternity benefits?  
(b) Describe the procedure for the payment of maternity benefits to eligible employees.  
(c) What maternity benefit is an employee entitled to under the relevant laws?

**শুন্ন অব বিজনেস**  
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**Questions**

1. (a) Under industrial law, what is the maximum limit for daily and weekly working hours?  
(b) Explain the concepts of compensatory weekly holiday and night shift provisions.  
(c) What are the various types of leave available to workers, and what are the requirements for each?
2. (a) Define wages as per industrial law, and explain the special definition of wages.  
(b) What are the responsibilities of an employer regarding the payment of wages?  
(c) Discuss the allowable deductions from wages, such as for damage or loss, and the process for such deductions.
3. (a) Define conciliation and arbitration in industrial disputes and explain their importance.  
(b) What is the role of a Collecting Bargaining Agent in resolving industrial disputes?  
(c) Describe the procedure followed before and after the notice of strike or lockout, including the involvement of a conciliator.

**Bangladesh Open University**  
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**Semester: 231 (5<sup>th</sup> Level)**

**Course Title: Financial Management and Policy**

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**Questions**

1. (a) Is maximizing shareholder wealth inconsistent with having concern for the welfare of a firm's other stakeholders? Explain.
  - (b) Define agency problems and describe how they give rise to agency costs. Explain how a firm's corporate governance structure can help avoid agency problems.
  - (c) Ann and Jack have been partners for several years. Their firm, A & J Tax Preparation, has been very successful, as the pair agree on most business-related questions. One disagreement, however, concerns the legal form of their business. For the past two years, Ann has tried to convince Jack to incorporate. She believes there is no downside to incorporating and sees only benefits. Jack strongly disagrees; he thinks the business should remain a partnership forever. First, take Ann's side, and explain the positive side to incorporating the business. Next, take Jack's side, and state the advantages of remaining a partnership. Last, what information would you want if you were asked to make the decision for Ann and Jack?
2. (a) Under what circumstances would the current ratio be the preferred measure of overall firm liquidity? Under what circumstances would the quick ratio be preferred?
  - (b) To assess the firm's average collection period and average payment period ratios, what additional information is needed, and why?
  - (c) How do the price/earnings (P/E) ratio and the market/book (M/B) ratio provide a feel for the firm's return and risk?
  - (d) The Nelson Company has \$1,312,500 in current assets and \$525,000 in current liabilities. Its initial inventory level is \$375,000, and it will raise funds as additional notes payable and use them to increase inventory. How much can Nelson's short-term debt (notes payable) increase without pushing its current ratio below 2.0? What will be the firm's quick ratio after Nelson has raised the maximum amount of short-term funds?

3. (a) Do the net present value (NPV) and internal rate of return (IRR) always agree with respect to accept–reject decisions? With respect to ranking decisions? Explain.
- (b) Payback comparisons Colorado Cleaning has a 5-year maximum acceptable payback period. The firm is considering the purchase of a new washing machine and must choose between two alternative ones. The first machine requires an initial investment of \$25,000 and generates annual after-tax cash inflows of \$6,500 for each of the next 8 years. The second machine requires an initial investment of \$75,000 and provides an annual cash inflow after taxes of \$9,500 for 15 years.
- Determine the payback period for each machine.
  - Comment on the acceptability of the machines, assuming that they are independent projects.
  - Which machine should the firm accept? Why?
  - Do the machines in this problem illustrate any of the weaknesses of using payback? Discuss
- (c) Billabong Tech uses the internal rate of return (IRR) to select projects. Calculate the IRR for each of the following projects and recommend the best project based on this measure. Project T-Shirt requires an initial investment of \$15,000 and generates cash inflows of \$8,000 per year for 4 years. Project Board Shorts requires an initial investment of \$25,000 and produces cash inflows of \$12,000 per year for 5 years.

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**Questions**

1. (a) The Golf Shop needs to forecast the number of specific golf sets it needs to sell to break even. The golf set sells for \$1,250 per set. The fixed operating costs are \$21,000 while the variable operating costs are \$750 per set. How many sets must The Golf Shop sell to break-even on this specific golf set?
  - (b) Newlin Electronics is considering additional financing of \$10,000. It currently has \$50,000 of 12% (annual interest) bonds and 10,000 shares of common stock outstanding. The firm can obtain the financing through a 12% (annual interest) bond issue or through the sale of 1,000 shares of common stock. The firm has a 40% tax rate.
    - a. Calculate two EBIT–EPS coordinates for each plan by selecting any two EBIT values and finding their associated EPS values.
    - b. Plot the two financing plans on a set of EBIT–EPS axes.
    - c. On the basis of your graph in part b, at what level of EBIT does the bond plan become superior to the stock plan?
  - (c) How does asymmetric information affect the firm's capital structure decisions? How do the firm's financing actions give investors signals that reflect management's view of stock value?
2. (a) Does following the *residual theory of dividends* lead to a stable dividend? Is this approach consistent with dividend relevance?
  - (b) Using examples, describe the many kinds of dividend policies.
  - (c) What benefit is available to participants in a *dividend reinvestment plan*? How might the firm benefit?

3.
  - (a) Explain the relationship between the firm's target capital structure and the weighted average cost of capital (WACC).
  - (b) How do the constant-growth valuation model and capital asset pricing model methods for finding the cost of common stock differ? Explain.
  - (c) Bill William intends to purchase a new racing car. He has decided to borrow money to pay the \$500,000 purchase price of the car. He is in the 40% federal income tax bracket. He can either borrow the money at an interest rate of 10% from the car dealer, or he could take out a second mortgage on his home. That mortgage would come with an interest rate of 8%. Interest payments on the mortgage would be tax deductible for Bill, but interest payments on the loan from the car dealer cannot be deducted on Bill's federal tax return.
    - a. Calculate the after-tax cost of borrowing from the car dealership.
    - b. Calculate the after-tax cost of borrowing through a second mortgage on Bill's home.
    - c. Which source of borrowing is less costly for Bill? Is there any other consideration that Bill should think about when deciding which loan to take out to pay for the racing car?

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**Questions**

1. (a) How do the cost of debt, the cost of equity, and the weighted average cost of capital (WACC) behave as the firm's financial leverage increases from zero?  
  
(b) Anke Perks is opening an arts and crafts store that focuses on canvases, paints, and pencils. The selling price of a canvas is \$24. The variable operating costs are \$14 per canvas while the fixed operating costs are \$4,000.
  - a. Calculate how many canvases Anke needs to sell to reach her operating breakeven point.
  - b. Calculate the total operating costs at the breakeven point based on part a.
  - c. Anke's business plan assumed that she would be able to sell 420 canvases per month. Will Anke be able to make a profit at this sales level?
  - d. How much EBIT will Anke generate if she sells 420 canvases per month?
  
2. Edna Recording Studios, Inc., reported earnings available to common stock of \$4,200,000 last year. From those earnings, the company paid a dividend of \$1.26 on each of its 1,000,000 common shares outstanding. The capital structure of the company includes 40% debt, 10% preferred stock, and 50% common stock. It is taxed at a rate of 40%.
  - a. If the market price of the common stock is \$40 and dividends are expected to grow at a rate of 6% per year for the foreseeable future, what is the company's cost of retained earnings financing?
  - b. If underpricing and flotation costs on new shares of common stock amount to \$7.00 per share, what is the company's cost of new common stock financing?
  - c. The company can issue \$2.00 dividend preferred stock for a market price of \$25.00 per share. Flotation costs would amount to \$3.00 per share. What is the cost of preferred stock financing?

- d. The company can issue \$1,000-par-value, 10% coupon, and 5-year bonds that can be sold for \$1,200 each. Flotation costs would amount to \$25.00 per bond. Use the estimation formula to figure the approximate cost of debt financing.
- e. What is the WACC?

**Bangladesh Open University**  
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**Due on May 16, 2025**

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

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**Questions**

1. (a) What is meant by entrepreneur? How will you distinguish between entrepreneur and manager?  
(b) Explain the main functions performed by the entrepreneurs.  
(c) Explain how economical factors help in developing entrepreneurship.
2. (a) “The greatest problem of women entrepreneurs is that they are women”. Describe.  
(b) “Developing rural entrepreneurship is as necessary is not so easy”. Explain.
3. (a) What are the factors that motivate people to go into business?  
(b) Describe the X and Y theory of motivation.  
(c) Describe the various theories of entrepreneurship and its applications.

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**Questions**

1. (a) Define small business. Explain the form of small business.  
(b) Discuss the stages of small business development.  
(c) What are the factors responsible for failure of small business? Discuss.
2. (a) Describe the benefits and problems of buying an existing business.  
(b) Explain the circumstances when to buy an existence business.  
(c) Discuss the steps in dealing the buyout.
3. (a) What do you mean by starting a new business? Describe the opportunities of starting a new business.  
(b) Discuss the variables or elements of a new business creation.  
(c) Explain the stages of actions for starting a new business.

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**Questions**

1. (a) Define franchising. Explain the types of franchising.  
(b) Describe the benefits and problems of franchising.  
(c) Discuss the procedure for evaluating franchise opportunities.
2. (a) What is small business plan? Explain the benefits of small business plan.  
(b) Discuss the steps to develop a small business plan.  
(c) Define the term 'project'. How will you classify the projects? Discuss.
3. (a) Describe the human involvement in different stages of small business.  
(b) Discuss the minimum information needed from accounting records for small business management.  
(c) Explain the management functions and their applicability in entrepreneurship development.

**Bangladesh Open University**  
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Semester: 231 (5<sup>th</sup> Level)

**Course Title: Socio-Economic Profile of Bangladesh**

**Due on May 16, 2025**

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**Questions**

1. Describe the sectoral composition of Bangladesh's economy. How do different sectors (Agriculture, Industry, Services) contribute to GDP and GNP?
2. Describe the current state of education and health in Bangladesh. How do these sectors contribute to human resource development?

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**Questions**

1. Discuss the different types of unemployment in Bangladesh, focusing on the differences between rural and urban unemployment. How effective are the government's initiatives in addressing unemployment, and what further measures could be taken?
2. Describe the significance of industrial development in Bangladesh. Compare the interdependence between agriculture and industry, and discuss the measures taken to overcome industrial backwardness.
3. Discuss the importance of foreign aid, investment, and debt in the context of Bangladesh's economic growth.

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**Questions**

1. What is women's empowerment in the context of Bangladesh? Discuss the policies and the role of NGOs in promoting women's participation in economic development.
2. Examine the role of foreign trade in Bangladesh's economic development. Discuss the main exportable commodities and the government's export policy.
3. Discuss the causes of environmental problems in Bangladesh. How do these issues affect the country's economic and social development?

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

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**Questions**

1. (a) Explain with examples the rules of Addition and Multiplication in theory of probability.  
(b) A factory produces a mechanism which consists of three independently manufactured parts. It is known that 1 per cent of part one, 4 per cent of part two and 3 per cent of part three are defective. What is the probability that a complete mechanism is not defective?
2. (a) Distinguish clearly between the Binomial and Poisson distribution.  
(b) The mean and standard deviation for the life times of a population of light bulbs are 1200 and 150 hours respectively. Assuming these lifetimes are normally distributed, what is the probability that a light bulb will last over 1500 hours?
3. (a) Describe the steps involved in the computation of Fisher's Ideal Index Number. What are its advantages and disadvantages?  
(b) Calculate Laspeyres', Paasche's, and Fisher's Ideal Index from the following data:

<i>Commodity</i>	<i>Price</i>	<i>Value</i>	<i>Price</i>	<i>Value</i>
<i>A</i>	10	100	8	96
<i>B</i>	16	96	14	98
<i>C</i>	12	36	10	4
<i>D</i>	15	60	5	25

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**Questions**

1. (a) Critically examine the various methods that are used for measuring trend. Which method do you think is the best and why?  
 (b) The following table shows the number of salesmen working in a certain concern:
 

Year	:	2014	2015	2016	2017	2018
No. of salesmen	:	28	38	46	40	56

Use the method of least squares to fit a straight line trend and estimate the number of salesmen in 2019.
2. (a) Define judgment sampling, quota sampling, and convenience sampling. Under what conditions, can each of these designs be used to advantage?  
 (b) A firm produces light bulbs that are known to have a mean life time of 1,200 hours with a standard deviation of 210 hours. What is the probability that a simple random sample of 100 bulbs will yield a mean that falls between 1,140 and 1,260 hours? [0.9956]
3. (a) Differentiate the following pairs of concepts:
  - (i) Statistic and parameter.
  - (ii) Null and Alternative Hypothesis.
  - (iii) Type I and Type II error.
 (b) A company produces two makes of bulbs, A and B. 200 bulbs of each make were tested and it was found that make A has mean life of 2560 hours and S.D. 90 hours, whereas make B had 2650 hours mean life and S.D. 75 hours. Is there a significant difference between the mean life of two makes?

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**Questions**

1. (a) Explain the procedure involved in testing hypothesis of a coefficient of correlation.  
(b) A sample of 25 college students is given an aptitude test. The mean test score for the sample is 475 and the standard deviation is 30. It is believed that the students of the college are above the normal average test score of 470. Conduct an appropriate test at 5% level of significance.
2. (a) What is  $\chi^2$  test? Under what conditions this test is applicable?  
(b) An automobile company gives you the following information about age groups and that liking for particular model of car which it plans to introduce:

	<i>Age Group</i>			<i>Total</i>
	<i>Below 25</i>	<i>25 – 50</i>	<i>Above 50</i>	
Persons who liked the car	45	30	25	100
Disliked the car	55	20	25	100
Total	100	50	50	200

On the basis above data, can it be concluded that the model appeal is independent of the age group?

3. (a) What is 'analysis of variance' and where it is used? Give two suitable examples.
- (b) Four brands of tyres were tested for durability and wear on specially designed machines which simulate road conditions. Four tyres of each brand were subjected to the same test and the number of kilometres until wear out was noted for each tyre. The data in thousands of kilometres is provided below:

<i>Tyre brand</i>			
<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
24	26	28	12
18	16	17	18
23	19	26	30
13	30	19	20

Test for a significant difference tyre mileage at the 5% level of significance.