Economics Discipline, Khulna University
BSS (Hons) 2nd Year 1st Term Final Examination 2026; Session: 2024-2025
Course No.: 0311 15 Econ 2101; Course Title: Intermediate Microeconomics
Full Marks: 60; Time: 03 Hours

The figures in the right margin indicate marks.

Section A

*There are **04** questions in this section. Answer any **03** questions.*

1. **a)** Consider the following utility function: $U(x, y) = 4x + y$. Does this utility function represents preferences that satisfy the three assumptions- completeness, transitivity, and monotonicity? [CLO1; L1] **05**

b) Define the concepts of an interior optimum and a corner solution in consumer choice theory, and explain the conditions under which each type of optimum occurs. [CLO1; L2] **05**

2. **a)** Write short notes on Engel curve. [CLO2; L1] **02**

b) Suppose a consumer who purchases two goods, food and clothing. He has the utility function $U(x, y) = xy$, where x denotes the amount of food consumed and y the amount of clothing. His marginal utilities are $MUx = y$ and $MUy = x$. Now suppose that he has an income of \$72 per week and that the price of clothing is $P_y =$ \$1 per unit. The price of food is initially $P_{x_1} =$ \$9 per unit and that the price subsequently falls to $P_{x_2} =$ \$4 per unit. Find the numerical values of the income and substitution effects on food consumption, and graph the results. [CLO2; L4] **08**

3. **a)** A firm's production function is $Q = 5L^{2/3} K^{1/3}$ with $MP_K = \left({}^{5}/_{3}\right)L^{2/3}K^{-2/3}$ and $MP_L = \left({}^{10}/_{3}\right)L^{-1/3}K^{1/3}$.

i. Does this production function exhibit constant, increasing, or decreasing returns to scale? - Explain. [CLO5; L3]

ii. Determine the marginal rate of technical substitution of L for K for this production function. [CLO5; L3]

iii. Determine the elasticity of substitution for this production function. [CLO5; L3] **06**

b) Draw the shape of the isoquants of the CES production function and comment on the characteristics of inputs as the elasticity of substitution σ varies between 0 and ∞. [CLO5; L3] **04**

4. **a)** Differentiate between monopoly market and monopolistically competetive market. [CLO1; L2] **02**

b) Graphically explain the price and output determination in the perfectly competetive market in case of normal profit and supernormal profit. [CLO3; L3] **04**

c) Graphically explain the deadweight loss due to monopoly. [CLO4; L4] **04**

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Section B

*There are **04** questions in this section. Answer any **03** questions.*

1. a) Define collusive and non-collusive oligopoly with examples. [CLO4; L1] **04**

   b) Explain the kinked demand curve model of oligopoly and how it leads to price rigidity in a non-collusive oligopoly market. [CLO4; L4] **06**

2. a) Define dominant strategy, dominated strategy, and Nash equilibrium. [CLO6; L1] **03**

   b) A capacity expansion game between Toyota and Honda is shown in the following payoff matrix, where the payoffs are in millions of dollars.

		Toyota		
		Build Large	**Build Small**	**Do Not Build**
	Build Large	0, 0	12, 8	18, 9
Honda	**Build Small**	8, 12	16, 16	20, 15
	Do Not Build	9, 18	15, 20	18, 18

   Prove that the Nash equilibrium of the sequential-move game differs significantly from that of the simultaneous-move game. [CLO6; L5] **07**

3. a) Identify the key factors which lead to rise in input price in the factor market. [CLO5; L3] **03**

   b) Graphically explain the equilibrium in the labor market. [CLO3; L3] **04**

   c) How does discrimination arise in the labor market? - Explain. [CLO5; L4] **03**

4. a) Define Pareto optimality. Explain the conditions under which a resource allocation is considered Pareto efficient. [CLO4; L3] **05**

   b) Discuss the relationship between competitive market equilibrium and social welfare with reference to the *First Fundamental Theorem of Welfare Economics.* [CLO4; L4] **05**

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Economics Discipline, Khulna University
BSS (Hons) 2^{nd} Year 1^{st} Term Final Examination 2026; Session: 2024-2025
Course No.: 0311 15 Econ 2103; Course Title: Development Economics I
Full Marks: 60; Time: 03 Hours

The figures in the right margin indicate marks.

Section A

*There are **04** questions in this section. Answer any **03** questions.*

1. a) 'Capability approach focuses directly on the quality of life that individuals are actually able to achieve'. Critically discuss this statement from the perspective of Amartya Sen's capability approach. [CLO1; L2] **05**

b) Critically analyze three core values of development. [CLO1; L4] **03**

c) Why do economists study values and attitudes when explaining differences in growth among countries? [CLO2; L1] **02**

2. a) Is history more important than natural resources in determining economic development? Discuss under the light of path dependence theory. [CLO2; L2] **05**

b) What does the saying 'Spain held the cow, and the Dutch milked it' mean? – Explain. [CLO2; L2] **05**

3. a) Explain why human capital may not experience diminishing returns. [CLO3; L2] **05**

b) Describe how export-led growth can accelerate industrialization and economic transformation. [CLO3; L4] **05**

4. a) Analyze endogenous growth model in the context of Bangladesh. [CLO3; L4] **05**

b) How does technological change play a role in the economic development of a country? Critically analyze. [CLO3; L4] **05**

Section B

*There are **04** questions in this section. Answer any **03** questions.*

1. a) How does foreign aid create dependency in developing countries? Analyze critically. [CLO2; L1] **05**

b) How can remittances help to reduce poverty and improve living standards? [CLO4; L1] **05**

2. a) Draw a Lorenz curve. If the Lorenz curve moves farther from the line of equality, what happens to the Gini coefficient? [CLO1; L1] **02**

b) Between poverty and inequality, which one is worse for the economy and why? [CLO2; L1] **03**

c) Analyze the relationship between economic growth and income inequality according to Kuznets. [CLO4; L4] **05**

3. a) Demonstrate the main characteristics of each stage in Rostow's model. [CLO4; L3] **07**

b) Explain how division of labor leads to higher efficiency in production. [CLO4; L3] **03**

4. a) Grphically explain the Lewis therory of unlimited supply of labor. [CLO4; L2] **05**

b) In case of economic development why Schumpeter emphasized more on the role of innovator and entreprenuer than that of capitalist? Justify. [CLO4; L5] **05**

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Economics Discipline, Khulna University
BSS (Hons) 2nd Year 1st Term Final Examination 2026; Session: 2024-2025
Course No.:031115 Econ 2107; Course Title: Agricultural Economics
Full Marks: 60; Time: 03 Hours

The figures in the right margin indicate marks.

Section A

*There are **04** questions in this section. Answer any **03** questions.*

1. a) Mention the peculiarities of agricultural economics. [CLO1; L2] 03
   b) Differentiate between short-run and long-run agricultural production functions. [CLO1; L3] 02
   c) Describe the equilibrium of agricultural farms under the factor-factor relationship for the following cases: [CLO4; L3]
      (i) Maximization of output subject to a cost constraint
      (ii) Minimization of cost for a given level of output 05

2. a) Describe the factor product relationship in agricultural economics. [CLO1; L4] 05
   b) Suppose the production function of a farm is $Q = 100K^{0.5}L^{0.5}$, and per unit price of capital and labour are P_k = BDT 40 and P_L = BDT 30, respectively, and production cost is C =BDT 1000. What amount of labour and capital should be employed so that output become maximum? What is the maximum amount of output? [CLO4; L5] 05

3. a) How do the nature of the market and elasticity affect the pricing of agricultural products? – Discuss. [CLO2; L4] 06
   b) Do you think the recent lower price of potatoes will influence its next season's production in Bangladesh? Justify your stand using the Cob-web theory. [CLO2; L5] 04

4. a) We often notice unexpected and very high gap of agro-products between farmgate price and retail price in the city. In this regard, explain main problems of agricultural marketing and suggest ways to increase farmers' margin. [CLO2; L3] 05
   b) Government of Bangladesh procures some durable agricultural crops directly from farmers. Discuss rationales behind it and suggest policies to safeguard farmers' interest. [CLO4; L6] 05

Section B

*There are **04** questions in this section. Answer any **03** questions.*

1. a) Define land reform and land tenure system. [CLO2; L1] 02
   b) Clarify the concept of sustainable agriculture with examples. [CLO1; L3] 03
   c) Recommend some policies for achieving sustainable agriculture in Bangladesh. [CLO3; L6] 05

2. a) Explain the main characteristics of the National Agricultural Policy-2018 of Bangladesh. [CLO3; L3] 04
   b) How can Bangladesh government stabilize the price of agricultural products by using price floor, price ceiling, and buffer stock scheme? – Justify. [CLO4; L5] 06

3. a) Discuss motive and functional mechanism of 'farmer card' (*Krishak card*) program of government of Bangladesh to safeguard interest of small farmers. [CLO4; L4] 05
   b) Despite some steps, farmers' credit access to formal banking channel is low, rather they depend on many informal channels generally with high interest rate. Discuss main reasons behind it and suggest policies for increasing farmer's access to banking channel. [CLO2; L4] 05

4. a) What do you mean by market failure? [CLO3; L2] 02
   b) Graphically explain how the government can boost the production of essential agricultural products by input subsidization. [CLO3; L6] 03
   c) Describe role of government intervention in restricting producers from exercising monopoly power and reducing deadweight loss. [CLO3; L4] 05

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Economics Discipline, Khulna University
BSS (Hons) 2nd Year 1st Term Final Examination 2026; Session: 2024-2025
Course No.: 0311 15 Econ 2109; Course Title: Money and Banking
Full Marks: 60; Time: 03 Hours

The figures in the right margin indicate marks.

Section A

*There are **04** questions in this section. Answer any **03** questions.*

1. a) Explain the major functions of money. [CLO1; L2] 03
   b) Discuss the evolution of the payment system from commodity money to electronic money. [CLO1; L6] 04
   c) Is a cheque money? Justify your answer. [CLO1; L5] 03

2. a) Define fractional-reserve banking and explain how banks create money in the banking system. [CLO1; L2] 05
   b) Explain how the reserve-deposit ratio and currency-deposit ratio affect money supply and money multiplier. [CLO1; L3] 05

3. a) Explain how open market operations and reserve requirements influence money supply and interest rates. [CLO2; L3] 05
   b) Evaluate the effectiveness of the central bank's monetary policy intervention during the long-term capital management bailout in maintaining financial stability and preventing systemic risk. [CLO2; L5] 05

4. a) Define financial markets and distinguish between money markets and capital markets. [CLO4; L2] 03
   b) Explain the relationship between interest rates and investment decisions in an economy. [CLO4; L3] 03
   c) Evaluate how changes in money supply affect interest rates and economic activities through the liquidity preference theory. [CLO4; L5] 04

Section B

*There are **04** questions in this section. Answer any **03** questions.*

1. a) What are the main objectives of banking regulations in the financial system? [CLO3; L2] 04
   b) Evaluate the role of banking regulations in maintaining stability and public confidence in the banking sector. [CLO3; L5] 06

2. a) Explain bank's credit risk from your perspective. [CLO3; L3] 05
   b) 'Changes in interest rates affect a bank's financial position'. Clarify the statement. [CLO3; L4] 05

3. a) Explain the major functions of the central bank in regulating the monetary and financial system of a country. [CLO4; L2] 04
   b) Discuss how central bank's intervention in the foreign exchange market helps to stabilize exchange rates and international trade. [CLO4; L4] 06

4. a) Explain the principles of islamic banking and how those differ from conventional banking practices. [CLO4; L4] 04
   b) Evaluate the effectiveness of islamic financial instruments such as Mudarabah, Musharakah, and Murabaha in promoting risk-sharing, ethical financing, and financial inclusion in modern banking practices. [CLO4; L5] 06

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Economics Discipline, Khulna University
BSS (Hons) 2^{nd} Year 1^{st} Term Final Examination 2026; Session: 2024-2025
Course No.: 0541 15 Math 2151; Course Title: Intermediate Mathematical Economics
Full Marks: 60; Time: 03 Hours

The figures in the right margin indicate marks.

Section A

*There are **04** questions in this section. Answer any **03** questions.*

1. a) Discuss the role of mathematics in simplifying economic theories and models. [CLO1; L2] **05**

b) Use Lagrange multipliers to optimize the following functions subject to the given constraint; $Z = 4x^2 - 2xy + 6y^2$, subject to x+y= 72. Estimate the effect on the value of the objective function from a 1-unit change in the constant of the constraint. [CLO2; L5] **05**

2. a) Define effective rate of interest. Calculate the effective annual interest on \$100 compounded weekly and continuously. [CLO2; L2] **04**

b) Find the present value of \$750 to be paid 4 years from now when the prevailing interest rate is 10 percent, if interest is compounded (a) annually and (b) semiannually. [CLO2; L2] **06**

3. a) Distinguish between discrete growth and continuous growth with economic examples. [CLO1; L3] **02**

b) Someone wants to borrow TK. 1,00,000 for business purpose. Bank offers a loan at an annual rate of 9% amortized over 12 months.

(i) What is her monthly payment? [CLO3; L3]

(ii) (ii) Construct a complete amortization table with this information. [CLO3; L3] **04**

c) Suppose Tk. 85,000 is invested. Investors anticipate to return over 5 years TK. 25,000, TK. 18,000, TK. 14,000, TK. 28,000, and TK. 30,000 respectively. Calculate the IRR of this project with trial and error method. [CLO3; L4] **04**

4. a) List various types of discounted cash flow methods. [CLO1; L1] **02**

b) Determine the total demand for industries 1, 2, and 3; given the matrix of technical coefficients A and the final demand vector B below: [CLO6; L5]

Output Industry

$$\begin{array}{cccc} 1 & 2 & 3 & \\ \end{array}$$

$$A = \begin{bmatrix} 0.2 & 0.3 & 0.2 \\ 0.4 & 0.1 & 0.3 \\ 0.3 & 0.5 & 0.2 \end{bmatrix} \begin{array}{c} 1 \\ 2 \\ 3 \end{array} \quad \textit{Input Industry}$$

$$B = \begin{bmatrix} 150 \\ 200 \\ 210 \end{bmatrix}$$

04

c) Maximize utility $u = 2xy$, subject to a budget constraint equal to $3x + 4y = 90$ by (a) finding the critical values of $\bar{x}, \bar{y}$ *and* $\bar{\lambda}$ and (b) using the bordered Hessian $|\bar{H}|$ to test the second-order condition. [CLO6; L5] **04**

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Section B

*There are **04** questions in this section. Answer any **03** questions.*

1. a) Integrate the following by parts method: [CLO3; L1]

$$\int 4x(x+1)^3 dx$$ **04**

b) Given the demand function $P_d = 25 - Q^2$ and the supply function $P_s = 2Q + 1$. Assuming pure competition, find (i) the consumers' surplus and (ii) the producers' surplus. [CLO3; L2] **06**

2. a) What do you mean by Cob-web model? [CLO1; L1] **02**

b) Consider two sector model: $\frac{dy}{dt} = 0.5\,(C + I - Y)$, $C = 0.8Y + 400$, and $I = 600$. Find the expression for $y(t)$ when $y(0) = 7000$. Is the system stable or unstable? – Comment. [CLO4; L4] **08**

3. a) Consider the supply and demand equations: $Q_S = 4P_{t-1} - 10$; $Q_d = -5P_t + 35$. Assuming that market is in equilibrium. Find expression for P_t and Q_t when $P_0 = 6$. Is the system stable or unstable? [CLO7; L2] **05**

b) Given, $Q_{dt} = 180 - 0.75P_t$, $Q_{st} = -30 + 0.3P_{t-1}$ and $P_0 = 220$. Now, determine: [CLO7; L5]

i) Market price (P_t) in any time period;
ii) Equilibrium price P_e; and
iii) Comment on the stability of the time path. **05**

4. Consider the following linear programming problem: [CLO5; L5]

$$\begin{gathered} Maximize\ 50x_1 + 60x_2 \\ Subject\ to: \\ 2x_1 + x_2 \le 300 \\ 3x_1 + 4x_2 \le 509 \\ 4x_1 + 7x_2 \le 812 \\ x_1 \ge 0, x_2 \ge 0 \end{gathered}$$

Apply the simplex method to find the optimal solution. **10**

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Economics Discipline, Khulna University
BSS (Hons) 2nd Year 1st Term Final Examination 2026; Session: 2024-2025
Course No.: 0413 15 BA 2153; Course Title: Management
Full Marks: 60; Time: 03 Hours

The figures in the right margin indicate marks.

Section A

*There are **04** questions in this section. Answer any **03** questions.*

1. a) What are the four basic functions that make up the management process? How are they related to one another? [CLO1; L4] **05**

   b) Describe the basic managerial skills with examples. How do the requirements of these skills vary at different levels of organization? [CLO1; L2] **05**

2. a) What are the major barriers to goal setting and planning in an organisation? [CLO3; L1] **05**

   b) Explain recommendations for overcoming those barriers. [CLO1; L1] **05**

3. a) Briefly outline the steps of the decision-making process. [CLO3; L2] **05**

   b) Most business decisions are made under conditions of either risk or uncertainty. In your opinion, is it easier to decide under a condition of risk or a condition of uncertainty? Why? [CLO3; L2] **05**

4. a) Categorise the common bases for departmentation in an organisational setting. [CLO3; L4] **05**

   b) Explain how you can choose the appropriate span of management in your organisation? [CLO3; L3] **05**

Section B

*There are **04** questions in this section. Answer any **03** questions.*

1. a) Discuss the process through which organizations attract and acquire human resources, with particular emphasis on human resource planning, recruitment, and employee selection. [CLO3; L2] **05**

   b) Briefly explain the methods used by organizations to develop human resources, focusing on training and development, performance appraisal, and performance feedback systems. [CLO3; L4] **05**

2. a) A leader must have the power to influence subordinates' behaviours, which, in turn, drives an organisation toward its desired target. Identify and explain the sources of leader power in organisations in this case. [CLO4; L2] **03**

   b) Explain the Fielder's contingency theory of leadership. [CLO4; L2] **07**

3. a) Explain a framework useful for explaining the motivation of employees in organisations. [CLO2; L5] **03**

   b) Explain the Maslow theory of motivation. How can you apply the concept of Maslow's Hierarchy of Needs in motivating your subordinates in an organisation? [CLO2; L5] **07**

4. a) What are the purposes of organisational control? Why is it so important? [CLO5; L1] **05**

   b) Discuss the steps involved in controlling organisational activities. [CLO5; L6] **05**

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