



Khulna University

School: Education

Discipline: Education

**Program: BEd
(Hons.)**

Year: First

Term: First

Examination Year: 2026

Session: 2025-26

Course Code: 0511 29 Bio 1195

Course Title: Biology I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	Draw the structure of a mitochondria and briefly discuss its origin, morphology, chemistry and function. [L1, CLO 1]	05
b)	Briefly discuss the cell division up to 'V' - shaped chromosome phases. [L1, CLO 1]	05
2. a)	Describe the key differences between mitosis and meiosis. [L2, CLO 1]	05
b)	Explain the bases used for the classification of plants and animals. [L2, CLO 2]	05
3. a)	What is taxon? Describe the importance of taxonomy and nomenclature in Biology. [L4, CLO 2]	05
b)	Differentiate among the artificial, natural and phylogenetic classification with its limitations. [L2, CLO 2]	05
4. a)	Explain the term 'species in time' and 'species in space'. [L2, CLO 2]	03
b)	Bentham and Hooker divided plants into two subkingdom - classify its characteristics with example. [L4, CLO 2]	07

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5.	State Mendel's law of segregation and illustrate it with a monohybrid cross. [L2, CLO 3]	05
b)	Identify the chemical components of DNA and outline its double-helix structure. [L1, CLO 3]	05
6. a)	The two strands of DNA run anti-parallel way - state it with diagram. [L2, CLO 3]	04
b)	What do you understand by operon? Discuss the transcription and translation method of gene regulation. [L2, CLO 3]	03
c)	Briefly discuss the extra nuclear inheritance with example. [L2, CLO 3]	03
7. a)	Establish the differences between independent assortment and incomplete linkage by test cross. [L2, CLO 3]	04
b)	The distance between 2-linked genes is one unit of map distance - explain with example. [L4, CLO 3]	02
c)	Discuss the different types of crossing over on the basis of chiasma formation. [L2, CLO 3]	04

*Levels of Bloom's cognitive domain:

[L1=Remember; L2=Understand; L3=Apply; L4=Analyze; L5=Evaluate; L6=Create]

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8. a) How will you explain the organic evolution of Wallace-Darwin theory by 3-observable facts and 2-deductions of them? [L2, CLO 3] 06
- b) Point out the observational question of 3rd facts that Natural Selection. [L2, CLO 3] 04

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Session: 2025-26

Course Code: 0312 29 Pol 1175

Course Title: Political Science I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	Define Political Science. [L1, CLO 1]	03
b)	“Political Science begins and ends with the state” - Analyze the scope of Political Science with the alliance of this statement. [L4, CLO 1]	07
2. a)	Explain the methods of studying political facts. [L2, CLO 1]	05
b)	Elaborate the relationship between Political Science and Economics. [L6, CLO 1]	05
3.	“The nation is a natural growth” – Justify the statement in accordance with the elements of nationalism. [L5, CLO 2]	10
4. a)	Make comparison between nationalism and internationalism. [L5, CLO 2]	05
b)	Is nationalism menace to internationalism? Analyze. [L4, CLO 2]	05

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5.	Which theory do you perceive suit best as the theory of origin of the state? Explain the theory and justify your reasoning. [L5, CLO 3]	10
6. a)	Define welfare state. [L1, CLO 3]	03
b)	Imagine, you are the prime minister of the Government of Bangladesh. Now share your initiatives to make Bangladesh as a welfare state. [L6, CLO 3]	07
7. a)	Elaborate the characteristics of sovereignty. [L4, CLO 4]	05
b)	Evaluate the pluralistic theories of sovereignty. [L5, CLO 4]	05
8. a)	How would you relate law to morality? Explain. [L2, CLO 4]	05
b)	Illustrate the types of liberty. [L2, CLO 4]	05

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Program: BEd
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Year: First

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Examination Year: 2026

Session: 2025-26

Course Code: 0232 29 Ban 1151

Course Title: Bangla I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	ভাষা কী? [L2, CLO1]	03
b)	ভাষা উৎপত্তির প্রাচীন তত্ত্বগুলো পর্যালোচনা করো। [L1, CLO2]	07
2. a)	ইন্দো-ইউরোপীয় ভাষাগোষ্ঠীর পরিচয় দাও। [L1, CLO1]	02
b)	চিহ্নের মাধ্যমে ভাষাভঙ্গির স্বরূপ নির্দেশ করো। [L4, CLO2]	08
3. a)	বাংলা ভাষার মৌল উপাদান কী কী? উল্লেখ করো। [L1, CLO4]	03
b)	'বাংলা ভাষার ধ্বনিবিন্যাস বৈজ্ঞানিক পদ্ধতিতে সুসজ্জিত' - উক্তিটির যথার্থ্য যাচাই করো। [L5, CLO4]	07
4.	অর্থ ও গঠন অনুসারে বাক্যের প্রকারভেদ আলোচনা করো। [L4, CLO2]	10

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5. a)	ব্যঞ্জনধ্বনির তিনটি বৈশিষ্ট্য লেখো। [L1, CLO2]	03
b)	বর্গীয় ব্যঞ্জনগুলোর উচ্চারণস্থান পর্যালোচনা করো। [L2, CLO2]	07
6. a)	উচ্চারণ কীভাবে ব্যক্তিত্বকে প্রভাবিত করে? এ সম্পর্কে ৪টি বাক্য লেখো। [L2, CLO3]	02
b)	নিচের শব্দগুলোর সঠিক উচ্চারণ লেখো এবং সংশ্লিষ্ট উচ্চারণসূত্রটি উল্লেখ করো: [L4, CLO3] গহ্বর, বাগ্মী, কক্ষ, যক্ষ্মা, উদ্বেগ, অতঃপর, অবিচার, প্রভাব।	08
7. a)	খাঁটি বাংলা, দেশি ও তদ্ভব শব্দের সংজ্ঞা ও আন্তঃসম্পর্ক নিরূপণ করো। [L2, CLO4]	05
b)	উদাহরণসহ ধ্বনিপরিবর্তনের ৫টি সূত্র ব্যাখ্যা করো। [L5, CLO3]	05
8. a)	নিচের সমোচ্চারিত শব্দসমূহের অর্থপার্থক্য নির্দেশ করো (যেকোনো ৫টি): [L1, CLO4] আপন, আপগ; আবরণ, আভরণ; নীচ, নিচ; বেশি, বেশী; শিকার, স্বীকার; গাথা, গাঁথা; অনিষ্ট, অনিষ্ঠ।	05
b)	নিচের শব্দসমূহের উৎস-ভাষা নির্দেশ করো (যেকোনো ৫টি): [L1, CLO4] কলম, চশমা, চাবি, হরতাল, দারোগা, সাম্পান, ডাব।	05

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Course Code: 0533 29 Phy 1191

Course Title: Physics I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	What is physical science? Explain the nature and characteristics of physical science. [L2, CLO1]	05
b)	Mention reasons for studying Physics in the Education Discipline. To develop students' intellectual development, how does physical science contribute? [L2, CLO1]	05
2. a)	State and explain Newton's laws of motion with examples. What is the significance of Newton's third law of motion? [L1, CLO1]	04
b)	Explain what you understand by 'Moment of Inertia' and 'Angular momentum'. State the principle of conservation of angular momentum and illustrate your answer with an example. [L2, CLO2]	04
c)	A particle moves from position 2m to 12m in 5 s. Calculate: displacement and average velocity. [L3, CLO2]	02
3. a)	What is simple harmonic motion? Derive the differential equation of simple harmonic motion. [L1, CLO2]	2+3
b)	Verify the conservation of linear momentum. [L2, CLO2]	03
c)	Two balls having mass of 5 kg and have been located 2 m distance from each other. Find the attraction force between the balls [Gravitational constant, $G = 6.673 \times 10^{-11} \text{ Nm}^2\text{kg}^{-2}$]. [L3, CLO2]	02
4. a)	State and explain Newton's law of gravitation. Calculate the universal gravitational constant. [L3, CLO1]	04
b)	Define potential and potential energy of a gravitational field. [L2, CLO2]	03
c)	State and explain Kepler's law of planetary motion. [L3, CLO2]	03

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5. a)	Shortly explain different types of modulus. [L2, CLO3]	02
b)	State and explain Hook's law. Show that $E_p = \frac{1}{2} \times \text{Stress} \times \text{Strain}$ where, the symbols have their usual meanings. [L2, CLO3]	2+4
c)	A Copper wire of 3 meter length and 2 mm in diameter supports a body of mass 8 Kg. If the Young's Modulus of the materials of the wire is $2 \times 10^{11} \text{ dyne/cm}^2$, then calculate the extension of the wire due to the weight. [L3, CLO3]	02
6. a)	What are beats and Doppler effect? [L1, CLO3]	03

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Course Title: Physics I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

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|-------|--|-----|
| b) | Derive the expression of the energy and power of a wave travelling along a string. [L5, CLO3] | 05 |
| c) | If you play a 256 Hz tuning fork and a 260 Hz tuning fork simultaneously. How many times you will get louder and softer per second and what will be the frequency of single tone? [L1, CLO3] | 02 |
| 7. a) | Explain that the strain has no unit. [L2, CLO3] | 02 |
| b) | Develop the equation of progressive wave. Find the positions of nodes and antinodes of a stationary waves. [L3, CLO3] | 3+5 |
| 8. a) | What do understand by the term 'coefficient of viscosity'? Derive the formula for the flow of a liquid through a capillary tube. [L2, CLO3] | 05 |
| b) | Derive Stokes' formula for the velocity of a small sphere falling through a viscous liquid. [L5, CLO3] | 05 |

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Course Code: 0314 29 Soc 1171

Course Title: Sociology I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	Analyze the scope of Sociology. [L4, CLO 1]	05
b)	Illustrate the methods of sociological investigation. [L2, CLO 1]	05
2. a)	Discuss the influence of geography on social life. [L6, CLO 2]	05
b)	Explain the relationship between heredity and social life. [L4, CLO 2]	05
3. a)	Define social control. [L1, CLO 1]	03
b)	Analyze the role of the agents of social control. [L4, CLO 1]	07
4. a)	Differentiate society from community. [L2, CLO 2]	05
b)	Relate and contrast folkways and mores. [L2, CLO 4]	05

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5. a)	Define social structure. [L1, CLO 3]	03
b)	Discuss the types of society. [L4, CLO 3]	07
6. a)	Analyze the functions of marriage and family. [L4, CLO 2]	05
b)	Illustrate the role of religion in society. [L2, CLO 2]	05
7. a)	What do you understand by social stratification? [L1, CLO 2]	03
b)	Explain the forms of social stratification. [L1, CLO 4]	07
8. a)	Explain 'progress' as a type of social change. [L4, CLO 2]	05
b)	Identify the factors that are responsible for social change. [L4, CLO 3]	05

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Year: First

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Session: 2025-26

Course Code: 0222 29 HC 1155

Course Title: Culture and Heritage of Bangladesh

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	Describe culture and its main characteristics. [L1, CLO 1]	05
b)	Examine the various sources from which the cultural heritage of Bangladesh has emerged. [L4, CLO 1]	05
2. a)	Describe the social and cultural life of the people of ancient Bengal. [L2, CLO 2]	05
b)	Explain the rise and development of Bengali language and literature in ancient Bengal. [L2, CLO 2]	05
3.	Evaluate the importance of preserving Bengali cultural heritage. [L5, CLO 3]	10
4. a)	Evaluate the contribution of religious beliefs to shape the economic and social life of the people in ancient Bengal. [L5, CLO 2]	05
b)	Assess the importance of dress and ornaments as cultural markers in medieval Bengali society. [L5, CLO 3]	05

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5. a)	Discuss the development of Vedic culture during Sena rule in Bengal. [L2, CLO 4]	05
b)	Identify the main phases of the early Islamic contact with Bengal. [L1, CLO 4]	05
6. a)	Evaluate the role of Bengali Renaissance in modern Bangladesh. [L5, CLO 4]	05
b)	Critically analyze the fusion of Islamic and Hindu traditions of Bangladesh. [L4, CLO 4]	05
7.	Formulate a cultural policy recommendation for preserving Bengali heritage in the global era. [L6, CLO 4]	10
8.	Explain how cultural diversity strengthened Bengali Society in 20 th Century. [L4, CLO 4]	10

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Program: BEd
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Year: First

Term: First

Examination Year: 2026

Session: 2025-26

Course Code: 0232 29 Eng 1153

Course Title: English I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	Convert the following words as directed and make a meaningful sentence with each of the newly formed words: [L3, CLO4] i) Inform (into Noun), ii) Simple (into Verb), iii) Care (into Adjective), iv) Silence (into Adverb), v) Strongly (into Verb)	1X5=5
b)	Join the following parts of sentences using appropriate transitional words: [L2, CLO4] i. He was tired. He continued working. ii. I studied hard. I could not pass the exam. iii. She went to the market. She bought some vegetables. iv. The weather was bad. We stayed at home. v. V. Hurry up. You should miss the train.	1X5=5
2. a)	Fill in the blanks with proper forms of the given words within parentheses: [L2, CLO 2] i. Shanghai is one of the _____ (big) cities of the world. ii. The news _____ (show) in social media are not always correct. iii. The computer has been taken away for _____ (maintain). iv. Without proper _____ (identify), you cannot enter the premises. v. v) Drive _____ (fast), or else you will miss the train.	05
b)	Complete the following text with right form of verbs given in bold fonts: [L3, CLO 1] Run, spend, wear, have, enjoy, be, earn, bring, make, enrich Money _____ one happy unless it _____ through fair means. There are people who _____ a lot of money but it _____ peace of mind to them. Their hours and days _____ only for earning money. Thus, they get used to _____ after it till death. They _____ their bags of money but their money is a liability to them. Costly dress is _____ by them but their costly dress cannot give them peace. On the other hand, the poor _____ happy though they do not have wealth or money. They _____ peace of mind.	05
3.	Draft a dialogue between two friends about the importance of mental and emotional well-being for students. [L6, CLO4]	10
4. a)	Transform the following sentences as directed: [L3, CLO4] i. Being tired, he went to bed early. (Change into a Complex sentence) ii. Although she was poor, she was honest. (Change into a Compound sentence) iii. My uncle is waiting for me outside. (Change into a Complex sentence) iv. He is so weak that he cannot carry the box. (Change into a Simple sentence) v. Everyone trusts an honest man. ((Change into a negative sentence)	1X5=5
b)	Discuss the role of listening in developing speaking skills. [L2, CLO4]	05

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Year: First

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Session: 2025-26

Course Code: 0232 29 Eng 1153

Course Title: English I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5.	<p>Read the following text and answer the questions given. [L2, CLO3]</p> <p>Meena is a celebrated animated series produced by UNICEF starting in the early 1990s, designed to break down social, educational, and gender barriers in South Asia. The cartoon follows the adventures of a spirited, nine-year-old girl named Meena, her brother Raju, and her intelligent pet parrot, Mithu. More than just entertainment, Meena serves as a powerful tool for social change, promoting education, health, gender equality, and children's rights to millions of viewers across countries like Bangladesh, India, Nepal, and Pakistan. The primary aim of the Meena cartoon was to address the severe discrimination against girls in South Asian societies. In her debut, Count Your Chickens, Meena fights for her right to go to school, challenging the traditional belief that girls should only stay at home and learn household chores. Through her persistence, the series highlights that educating a girl benefit not only herself but her entire family and community.</p> <p>Meena tackles numerous, crucial, and often difficult, social issues. Meena has had a massive, tangible impact on the region, with surveys showing that over 90% of children in Bangladesh are familiar with the series. Its success led to the development of comics, posters, and radio stories, making Meena a household name. In recognition of its influence, UNICEF introduced the Meena Media Awards in 2005 to promote excellence in media stories for and about children. Even decades after its debut, Meena remains relevant as a symbol of hope and a voice for a better tomorrow, urging society to continue the fight against gender inequality.</p> <p>a) Give a suitable title to the text given. b) Why is the Meena cartoon considered a tool for social change? c) What does the first episode focus on? d) What impact did the Meena cartoon have in Bangladesh? e) Summarize the text in four sentences.</p>	2X5=10
6. a)	Discuss how academic writing differs from other forms of writing. [L4, CLO4]	05
b)	Write five differences between intensive and extensive reading. [L4, CLO4]	05
7.	"Subsidized higher education is one of the reasons of overall fall of quality in higher education in Bangladesh". Do you agree? Apply your knowledge of writing argumentative essay in answer to this question giving your own title. [L6, CLO 4]	10
8.	With the rapid advancement of artificial intelligence, a growing amount of AI-generated content is now circulating across online platforms. Write a well-organized essay on this phenomenon, providing a suitable title. [L6, CLO 4]	10

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**Course Code: 0531 29 Chem
1193**

Course Title: Chemistry I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	Explain the Thomson atomic model and elucidate the experimental procedure used to discover electrons. [L2, CLO1]	04
b)	List the four quantum numbers and their significance. [L1, CLO2]	02
c)	Critically evaluate the limitations of Bohr's atomic model. [L5, CLO1]	04
2. a)	Use periodic trends to predict which element has higher electronegativity. [L3, CLO1]	03
b)	Differentiate between metallic and non-metallic character trends. [L2, CLO2]	04
c)	Compare the properties of <i>s</i> -, <i>p</i> -, <i>d</i> - block elements based on periodic trends. [L5, CLO2]	03
3. a)	Define coordinate bonding. [L1, CLO1]	02
b)	Analyze the differences between sigma (σ) and pi (π) bonds. [L4, CLO1]	04
c)	Explain why the bond angle of H_2O become 104.5° instead of 180° ? [L3, CLO2]	04
4. a)	Describe the concept of binding energy per nucleon. [L2, CLO2]	05
b)	Compare alpha, beta, and gamma radiations. [L4, CLO2]	05

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5. a)	Explain environmental chemistry. [L1, CLO2]	02
b)	Describe the relationship between industrial development and environmental pollution. [L2, CLO2]	04
c)	Explain the carbon cycle and its importance. [L2, CLO3]	04
6. a)	Discuss the key stages of cement production with a diagram. [L6, CLO2]	04
b)	Explain biological nitrogen fixation with suitable examples. [L2, CLO2]	02
c)	Describe the manufacture of ammonia by the Haber-Bosch process. [L2, CLO2]	04
7. a)	Define soap and elaborate on the materials commonly used in the soap manufacturing process. [L1, CLO3]	05
b)	How do detergents remove dirt and grease? Explain. [L2, CLO2]	05

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**Course Code: 0531 29 Chem
1193**

Course Title: Chemistry I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

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| 8. a) | What is the composition of air? [L1, CLO3] | 02 |
| b) | Discuss the types of air pollutants with suitable examples. [L6, CLO3] | 04 |
| c) | Explain the greenhouse effect with a neat diagram. [L2, CLO3] | 04 |

*Levels of Bloom's cognitive domain:

[L1=Remember; L2=Understand; L3=Apply; L4=Analyze; L5=Evaluate; L6=Create]

Page:



Khulna University

School: Education

Discipline: Education

**Program: BEd
(Hons.)**

Year: First

Term: First

Examination Year: 2026

Session: 2025-26

Course Code: 0311 29 Econ 1173 Course Title: Economics I

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1. a)	Differentiate between Micro-economics and Macro-economics with example. [L1, CLO 1]	05
b)	Explain the role of technology in production. [L2, CLO 1]	05
2. a)	Graphically explain movement along the demand curve and shift in the demand curve. What are the factors that can shift the demand curve? [L3, CLO 2]	07
b)	Graphically explain the market equilibrium. [L6, CLO 2]	03
3. a)	Calculate the equilibrium price and quantity from the following functions: [L3, CLO 2] Demand: $Q_d = 180 - 2.7P$ Supply: $Q_s = -104 + 3.4P$	03
b)	Graphically explain the change in quantity supply and change in supply. [L3, CLO 2]	05
c)	Define cross-price elasticity of demand. [L1, CLO 2]	02
4. a)	Explain the price elasticity of demand with different varieties of demand curves. [L2, CLO 2]	07
b)	Define the income elasticity of demand and show how you can measure the nature of goods using the income elasticity of demand. [L3, CLO 2]	03

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5.	Show the relationship between total production and marginal production focusing on the law of diminishing marginal productivity. [L2, CLO 3]	05
b)	Explain the relation between marginal cost and average cost with example. [L4, CLO 3]	05
6. a)	Explain the different types of returns to scale. [L4, CLO 3]	05
b)	Graphically explain average total cost, average fixed cost, average variable cost, and marginal cost of production. [L3, CLO 3]	05
7. a)	Classify the different types of markets based on competition. [L2, CLO 4]	04
b)	Describe the short-run equilibrium of a perfectly competitive firm. [L4, CLO 4]	06
8. a)	Explain a firm's profit and shutdown point in a perfectly competitive market. [L3, CLO 4]	05
b)	Describe how the profit-maximizing level of output and price are determined in a monopoly market. [L4, CLO 4]	05

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Year: First

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Course Code: 0111 29 Edu 1101

Course Title: Introduction to Education

Total Marks: 60

Time: 3 Hours

Credit: 3.0

Section A

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
1.	Analyze the evolution of education in western and eastern context. [L4, CLO 7]	10
2. a)	Analyze how psychology acts as one of the foundations of education. [L4, CLO 1]	06
b)	Evaluate the significance of education. [L5, CLO 1]	04
3. a)	Explain the role of education in human resource development (HRD). [L2, CLO 2]	04
b)	According to you, what should be the main aim of education in the context of contemporary Bangladesh? Provide justification. [L5, CLO 2]	06
4. a)	Explain 'literacy'. [L1, CLO3]	02
b)	When will call a person 'literate'? [L3, CLO 3]	04
c)	'Basic education is called essential learning tool' – to what extent do you agree with it? Justify your opinion. [L5, CLO 3]	04

Section B

There are Four questions in this section. Answer any Three questions.

Question No.	Question Description	Marks
5.	Evaluate the significance of the followings as factors of education: [L5, CLO 4]	
a)	Teacher	05
b)	Curriculum	05
6.	Analyze the indicators of quality education. [L4, CLO 4]	10
7. a)	Differentiate informal, formal, and non-formal education with example. [L2, CLO 5]	05
b)	Describe the significance of non-formal education in developing countries. [L2, CLO 5]	05
8. a)	Analyze the nature of education as a Discipline. [L4, CLO 6]	06
b)	Evaluate the significance of education as a Discipline. [L5, CLO 6]	04

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