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Daffodil International University

**Department of Genetic Engineering and Biotechnology**
Faculty of Health and Life Sciences
B. Sc. (Hons.) in Genetic Engineering and Biotechnology
Midterm Examination Summer 2025

**Course Code:**
GEB 0512-1101

Course Title: **Introduction to Genetic Engineering and Biotechnology**

**Level and Term:** L-1, T-1
**Time:** 01 Hour 30 Minutes

**Section: 252 (A+B)**

**Course Teacher Initial: KMH**
**Total Marks: 25**

**Splitting any answer is strictly prohibited**

| | | | | Marks |
|---|---|---|---|---|
| 1 | (a) | Discuss the prospects of genetic engineering and biotechnology. | [CLO1, PLO1, C6] | 3 |
| | (b) | Outline the applications of genetic engineering and biotechnology. | [CLO1, PLO2, C2] | 2 |
| 2 | (a) | Discuss on four suitable parameters regarding multidisciplinary nature of biotechnology. | [CLO3, PLO1, C6] | 3 |
| | (b) | Explain the potential benefits of biotechnology for developing countries. | [CLO3, PLO2, C5] | 2 |
| 3 | (a) | Demonstrate the strategies for successful commercialization of biotechnology in developing countries. | [CLO3, PLO1, C2] | 2 |
| | (b) | Elaborate the key steps in recombinant DNA technology. | [CLO2, PLO2, C6] | 3 |
| 4 | (a) | Organize three suitable biological tools being used for rDNA technology. | [CLO2, PLO2, C3] | 2 |
| | (b) | Illustrate four suitable methods of gene transfer. | [CLO2, PLO2, C2] | 3 |
| 5 | (a) | What are the challenges of biotechnology and genetic engineering in developing countries? | [CLO1, PLO2, C1] | 3 |
| | (b) | Critically summarize the public perception and ethical concerns regarding genetic engineering and biotechnology. | [CLO3, PLO2, C2] | 2 |