



Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
BSc. in Genetic Engineering and Biotechnology
Midterm Examination Spring 2025

Course Code: 0512-1105
Level and Term: L-1, T-1
Time: 1 hour 30 minutes

Section: A, B

Course Title: Basic Plant Sciences
Course Teacher Initials: DJA, MZA
Total Marks: 25

Splitting any answer is strictly prohibited

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|---|--|----------------|-------|
| 1 | (a) Write down the five phyla of the plant kingdom with appropriate examples. | CLO1, PLO1, C1 | 5 |
| 2 | (a) Briefly discuss the importance of agronomy? | CLO1, PLO1, C3 | 3 |
| | (b) Draw and mark the five key parts of an ideal leaf? | CLO1, PLO1, C2 | 2 |
| 3 | (a) What are key differences between self and cross pollination? | CLO1, PLO1, C3 | 3 |
| | (b) What do you understand by double fertilization? | CLO1, PLO1, C2 | 2 |
| 4 | (a) State the key features of a seed. | CLO1, PLO1, C1 | 2 |
| | (b) Write down the functions of cell membrane. | CLO1, PLO1, C3 | 3 |
| 5 | (a) Draw a cross-sectional diagram of mitochondria labelling the inner and outer membrane along with its function. | CLO1, PLO1, C1 | 2 |
| | (b) Mention the biological significance of Meiosis. | CLO1, PLO1, C2 | 3 |