



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

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

Section: 253 (A+B)
Course Title: Basic Plant Science
Course Teacher Initials: MZA
Total Marks: 25
Splitting any answer is strictly prohibited

1	(a) Enlist and classify the five major phyla of the plant kingdom providing one representative example for each.	[CLO1, PLO1, C1]	Marks 5
2	(a) Explain and justify the importance of agronomy in modern agricultural practices. (b) Discuss the concept and scope of olericulture.	[CLO1, PLO1, C3] [CLO1, PLO1, C4]	3 2
3	(a) Identify the unique features of plant? (b) Differentiate between rough ER and smooth ER.	[CLO1, PLO1, C5] [CLO1, PLO1, C2]	3 2
4	(a) Analyze the role of cytokinin, ethylene and abscisic acid. (b) Enumerate the functions of cell membrane.	[CLO1, PLO1, C4] [CLO1, PLO1, C1]	3 2
5	(a) Explain the following terms: <u>Cytokinesis</u> , <u>Chiasmata</u> and <u>Crossing over</u> . (b) Draw a cross-sectional diagram of mitochondria and label it's inner and outer membrane.	[CLO1, PLO1, C2] [CLO1, PLO1, C6]	3 2