

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF BIOLOGICAL SCIENCE & ENGINEERING

Examination: Mid-Term Exam
Month & Year: November, 2024
Course: B. Tech. Semester 1
Subject Name: Biology for Engineers

Subject Code: BSE 24111
Time: One Hour
Max. Marks: 20

NOTE: Answer all questions max in 2-3 lines.

- | | | |
|-------|--|-----|
| 1 (A) | Name two organelles present in both plant and animal cells | 2.5 |
| 1(B) | What do the ribosomes play in both the prokaryotic & eukaryotic cells? | 2.5 |
| 2 (A) | How does binary fission differ from mitosis? | 2.5 |
| 2(B) | What is the exponential and lag phase in bacterial growth? | 2.5 |
| 3(A) | How are proteins denatured? | 2.5 |
| 3(B) | What is the principle behind a biosensor's working mechanism? | 2.5 |
| 4(A) | How is bio printing used in regenerative medicine? | 2.5 |
| 4(B) | How do microorganisms aid in metal extraction in bio mining? | 2.5 |