

Anjuman Islam Janjira Degree College of Science
Murud-Janjira, Raigad 402401
Affiliated to University of Mumbai
As per NEP 2020

Class: -F.Y.B.Sc.(G.S)	Subject: - Cytogenetics, Ecology and Environment Conservation.
Semester:- II	Course code: -USBOH101
Exam Event:- Summer 2026 (FH)	Marks: - 30
Date: - 11/03/2026	Duration: - 1 hr. 30 minutes

- Note: • Attempt any two questions out of four questions.
 • All questions carry equal marks.
 • Draw neat and labeled diagrams wherever necessary



Q.1. Answer the following:

- A) Describe the ultrastructure and function of plasma membrane. 8M
 B) Give an account of recycling of waste. 7M

Q.2. Answer the following:

- A) Describe the ultrastructure and function of chloroplast.. 8M
 B) Write note on Ex-situ conservation. 7M

Q.3. Answer the following:

- A) Explain in brief terrestrial ecosystem. 8M
 B) What are the expected genotypic and phenotypic ratios in the F1 and F2 generations of a Dihybrid cross? 7M

Q.4. Answer the following:

- A) Write note on climate change ozone depletion and green-house effect. 8M
 B) Explain co-dominance with suitable examples from plants or animals. 7M