FACULTY OF SCIENCE
B.Sc. III Year Examination March / April 2015
Subject: Botany
Paper- III: Cell Biology, Genetics, Ecology and Biodiversity

Time: 3 hours
Max. Marks: 100

Section: A (5 x 8=40)
(Short answer Questions)
Note: Answer any FIVE Questions. Attempt at Least ONE Question from each unit. Answer should not exceed 20 Lines for each question. Draw well labeled diagrams wherever necessary.

Unit-I
1. Nucleus.
2. Lamp Brush Chromosome.

Unit-II
3. Law of Independent Assortment.

Unit-III
5. Carbon Cycle.
6. Life Forms.

Unit-IV
7. Value of Biodiversity.
8. UNEP.

Section: B (4 x 15=60)
(Essay Type Questions)
Note: Answer ALL Questions. Answer should not Exceed 80 lines for each question. Draw well labelled diagrams wherever necessary.

9. (a) Describe the ultra structure of Cell wall.
   OR
   (b) Write an essay on the types and functions of RNA.

10. (a) Give a General Account on Linkage and Mention its Significance.
    OR
    (b) What is mutation? Explain in detail about induced mutations.

11. (a) Define Ecological Pyramid? Discuss in detail the ecological Pyramids in an Ecosystem
    OR
    (b) Write a general account on Hydrophytes.

12. (a) Explain the different methods of Biodiversity conservation.
    OR
    (b) Write an essay on Hot-Spots of India.

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