Y–25–Z

Roll No. .....

Total No. of Questions : **14**] [*Total No. of Printed Pages* : **3**

XIARJKUT23

9225–Z

BOTANY

(BIOLOGY)

Azadar Hussain

Time : 1.30 Hours] **[Maximum Marks : 35**

Section–A 5 each

1. Describe in detail the role of growth regulators in Agriculture.

Or

Describe the mechanism of Electron Transport System (ETS) in Respiration.

2. Enumerate the diagnostic characters, floral formula and floral diagram of family Solanaceae.

Or

Define the term inflorescence. Distinguish between racemose and cymose inflorescence. Substantiate your answer with examples and well labelled diagram.

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Section–B

3 each

3. Explain the various types of taxonomic aids used for Identification.

4. Write any *three* distinguishable characters of Lichens.

5. Enumerate the important characteristics of gymnosperms.

6. Briefly describe the internal structure of monocot stem with the help of a diagram.

7. State the *three* criteria for essentiality of an element.

Section–C

2 each

8. Write short note on Cohesion-Tension Theory.

9. What is Osmosis ? State its types.

10. Write any *two* steps that are common in both C_3 and C_4 Photosynthesis.

Section–D

1 each

11. Carolus Linnaeus devised a nomenclature system known as :

(A) Monomial

(B) Binomial

(C) Trinomial

(D) Polynomial

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12. Select the statement which is not applicable to sclerenchyma :

(A) Consists of long narrow cells.

(B) The cells are living.

(C) The cell wall is lignified.

(D) Provides mechanical support to organs.

13. What does ICBN stands for ?

14. What is Parthenocarpy ?

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