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Question Paper

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Y–25–X

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XIARJKUT23

9225–X

BOTANY

(BIOLOGY)

Time : 1.30 Hours]

[Maximum Marks : 35

Section–A

5 each

1. What do you understand by Photoperiodism and Vernalisation ? Describe their significances.

Or

Draw schematic representation of the various steps of glycolysis. How is glycolysis different from citric acid cycle ?

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

Or

Define Flower. Describe parts of typical flower. Write the functions of the flower.

Section–B

3. State the criteria followed by R.H. Whittaker for his classification of five kingdom arrangement of organism.

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

5. Enumerate the important characteristics of gymnosperms.

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

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

Section–C

8. Write short note on transpirational pull theory.

9. What is Osmosis ? State its types.

10. What is Respiratory Quotient ? Compare its value for carbohydrates proteins and lipids.

Section–D

11. Carolus Linnaeus devised a nomenclature system known as :

(A) Monomial

(B) Binomial

(C) Trinomial

(D) Polynomial

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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