

Y-25-X

Roll No.

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

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.

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Turn Over

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Section-B

3 each

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

2 each

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

1 each

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 ?