

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

 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 ?

 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



Section-B

3 each

- State the criteria followed by R.H. Whittaker for his classification of five kingdom arrangement of organism.
- Write any three distinguishable characters of Lichens.
- 5. Enumerate the important characteristics of gymnosperms.
- Briefly describe the internal structure of dicot stem with the help of a diagram. https://www.jkboseonline.com
- State the three criteria for essentiality of an element.

Section-C

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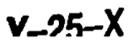
- 8. Write short note on transpirational pull theory.
- What is Osmosis ? State its types.
- 10. What is Respiratory Quotient ? Compare its value for carbohydrates proteins and lipids.

Section-D

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- 11. Carolus Linnaeus devised a nomenclature system known as :
 - (A) Monomial
 - Binomial
 - (C) Trinomial
 - (D) Polynomial

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12.	Select th	e statement	which	is	not	applicable	to	sclerenchyma	
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- (A) Consists of long narrow cells.
- 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 ?