

C-3-A

Roll No.....

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

XIARKD21

5803-A

BOTANY

(BIOLOGY)

Time : 1.15 Hours]

[Maximum Marks : 35

Section-A

5 each

1. Give a detailed account of Calvin cycle with illustration.

Or

Give a detailed account of the glycolytic pathway.

2. Define the term Inflorescence. Give a detailed account of racemose inflorescence.

Or

What is the basis of classification of Algae ? Write down the various characteristic features of Chlorophyceae.

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Turn Over

C-3-A

Section-B

3 each

3. Briefly describe water potential. Name the factors affecting it.
4. What do you understand by Photoperiodism ? Give its significance (any two).
5. What is a Flower ? Describe the parts of a typical angiospermic flower.
6. Why are xylem and phloem called complex tissues ?
7. What is Binomial nomenclature ? Mention any *four* universal rules of binomial nomenclature.

Section-C

2 each

8. What do the terms mycobiont and phycobiont signify in Lichens ?
9. What is Meristematic Tissue ? Name the different types of meristematic tissues on the basis of position in the plant body.
10. How is taxonomy different from systematics ?

Section-D

1 each

11. Which of the following are found in extreme saline conditions ?
 - (A) Archebacteria
 - (B) Eubacteria
 - (C) Cyanobacteria
 - (D) Mycobacteria

12. An element playing important role in nitrogen fixation is :

(A) Copper

(B) Manganese

(C) Zinc

(D) Molybdenum

13. Name the smallest gymnosperm.

14. What is the respiratory coefficient of Carbohydrates ?