W–3–C

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

XIAP/BIKD22

7103–C

BOTANY

(BIOLOGY)

Time : 1½ Hours] [Maximum Marks : 35

Section–A

1 each

1. Symbiotic association of algae and fungi is found in ..... .

(Fill in the blank)

2. What is Botanical Garden ? Name the botanical garden located in Kolkata.

3. What is the function of Pneumatophores in plants ?

4. Xylem and phloem is separated by a cambium layer in a conjoint collateral and open vascular bundle.

(True/False)

Section–B

2 each

5. What is Phyllotaxy ? Describe opposite type of phyllotaxy.

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6. Mention four main physiological effects of Auxins in plants.

7. What is difference between plasmolysis and deplasmolysis ?

Or

Differentiate between apoplast and symplast pathways.

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Section–C

3 each

8. Classify algae on the basis of photosynthetic pigments and storage food.

9. What are the merits of *five* kingdom system ?

10. Write a short note on Hypanthodium.

11. Give a brief account of vernalization in plants.

12. What is a taxonomic key ? How is it helpful in the identification and classification of an organism ?

Or

'Status of virus is a cont

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5 each

Section–D

...is Transpiration ? What are the positive and negative aspects of ...transpiration ?

Or

Define meristematic tissue. Classify meristems on the basis of their position in the plant body.

Define photophosphorylation. Describe cyclic and non-cyclic photophosphorylation.

Or

Give a schematic outline of Kreb's cycle. Write its net gain in respect of energy.

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