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Total No. of Questions : 21
Total No. of Printed Pages : 3

Regd. No.

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Part - III
BOTANY, Paper - II

(English version)

Time : 3 Hours]

[Max. Marks : 60

Note :- Read the following instructions carefully.

- (i) Answer **all** the questions of **Section-A**. Answer **ANY SIX** questions out of **eight** in **Section-B** and answer **ANY TWO** questions out of **three** in **Section-C**.
- (ii) In **Section-A**, questions from Sl. Nos. **1 to 10** are of *Very short answer type*. Each question carries **TWO** marks. Every answer may be limited to 5 lines.
- (iii) In **Section-B**, questions from Sl. Nos. **11 to 18** are of *Short answer type*. Each question carries **FOUR** marks. Every answer may be limited to 20 lines.
- (iv) In **Section-C**, questions from Sl. Nos. **19 to 21** are of *Long answer type*. Each question carries **EIGHT** marks. Every answer may be limited to 60 lines.
- (v) Draw labelled diagrams wherever necessary for questions in **Section-B** and **C**.

SECTION - A

10×2=20

Note :- Answer **all** questions. Every answer may be limited to 5 lines.

1. Why Spirogyra is called pond silk and pond scum ?
2. Define Coenocytic hyphae with one example.

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3. Distinguish between paraphysis and apophysis of Funaria.
4. Define Nucleoid.
5. If fresh water plant is transferred to marine water, it would die. What shall be the reasons ?
6. Define Macro elements. Give two examples.
7. Explain Bacterization and Algalization with examples.
8. What is Richmond's Long effect ?
9. Define Turnover number of an Enzyme.
10. Why do fungal and bacterial SCP not suitable for human consumption ?

SECTION - B

6×4=24

Note :- Answer ANY SIX questions.

11. Describe the structure of Pteris Prothallus.
12. Explain any four industrial applications of Bacteria.
13. How are the Viruses classified on the basis of their hosts ?
14. Explain the Cohesion tension theory.
15. Describe the various steps in the development of root nodules in legumes.
16. Tabulate any eight differences between C₃ and C₄ pathways / plants.
17. What is Mutation breeding ? Explain.
18. List out any four applications of Genetic Engineering.

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SECTION - C

2×8=16

Note : Answer any TWO questions.

19. Explain the internal structure of the corolloid roots of Cycas.
 20. Explain the chemical reactions which take place during Glycolysis.
 21. Explain briefly the cultivation process of white button Mushrooms.
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