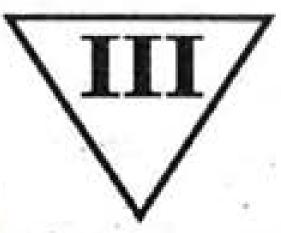
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Total No. of Questions: 21 Total No. of Printed Pages: 2

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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. Answer all these questions at one place in the same order.
- (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 Sections-B and C.

SECTION - A

 $10\times2=20$

Note: Answer all questions. Each answer may be limited to 5 lines.

- 1. Define Hydroponics.
- 2. Distinguish between Apoenzyme and Cofactor.
- 3. What are Pleomorphic bacteria? Give an example.
- 4. Explain the terms Phenotype and Genotype.

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- 5. What is the function of the codon AUG?
- 6. In a typical D.N.A. molecule, the proportion of Thymine is 30% of the N bases. Find out the percentages of other N bases.
- 7. What is down stream processing?
- 8. What is GEAC and what are its objectives?
- 9. What are Fermentors?
- 10. Give any two microbes that are useful in Biotechnology.

SECTION - B

 $6 \times 4 = 24$

Note: Answer ANY SIX questions. Each answer may be limited to 20 lines.

- 11. "Transpiration is a necessary evil." Explain.
- 12. Explain the structure of the Chloroplast. Draw a neat labelled diagram.
- 13. Explain the steps involved in the formation of root nodule.
- 14. Write a note on agricultural / horticultural applications of Auxins.
- 15. Explain the structure of T.M.V.
- 16. Mention the advantages of selecting pea plant for experiment by Mendel.
- 17. What are the differences between DNA and RNA?
- 18. What are some bio-safety issues concerned with genetically modified crops?

SECTION - C

 $2 \times 8 = 16$

Note: Answer any TWO questions. Each answer may be limited to 60 lines.

- 19. Explain the reactions of Kreb's cycle.
- 20. Explain briefly the various processes of recombinent DNA technology.
- 21. Describe the tissue culture technique and what are the advantages of tissue culture over conventional method of plant breeding in crop improvement programmes.

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