227

II

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 SI. 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 the 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.

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## SECTION - A

Note: Answer all the questions. Each answer may be limited to 5 lines: 10

 $10\times 2=20$ 

- 1. What are apoplast and symplast?
- 2. Define the law of limiting factors proposed by Blackman.
- 3. What is a genophore?
- 4. Who proposed the Chromosome Theory of Inheritance?
- 5. What are the components of a transcription unit?
- 6. Define stop codon. Write the codons.
- 7. What is down-stream processing?

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- 8. Can a disease be detected before its symptoms appear? Explain the principle involved.
- 9. Give two examples of fungi used in SCP production.
- 10. Name any two industrially important enzymes.

## SECTION - B

Note: Answer any six questions. Each answer may be limited to 20 lines:  $6 \times 4 = 24$ 

- 1. Define and explain water potential.
- 12. Explain the steps involved in the formation of root nodule.
- 13. Write briefly about enzyme inhibitors.
- 14. Write the physiological responses of gibberellins in plants.
- 15. Explain the lytic cycle with reference to certain viruses.
- 16. Explain the law of Dominance using a monohybrid cross.
- 17. Write briefly on nucleosomes.
- 18. List out the beneficial aspects of transgenic plants.

## SECTION-C

Note: Answer any two questions. Each answer may be limited to 60 lines:  $2 \times 8 = 16$ 

- 19. Explain the reactions of Krebs cycle.
- 20. Give a brief account of the tools of recombinant DNA technology.
- 21. Describe the tissue culture technique. What are the advantages of tissue culture over conventional method of plant breeding in crop improvement programmes?



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