Sr. Inter Botany Model Paper

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 "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 labeled diagrams, wherever necessary for questions in Section-B and Section-C.

SECTION -A

 $10 \times 2 = 20$

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

- 1. Define hydroponics
- 2. What is meant by bolting? Which hormone causes bolting?
- 3. What are pleomorphic bacteria? Give an example.
- 4. What is point mutation? Give an example.
- 5. What are the components of a transcriptional unit?
- 6. What is meant by capping and tailing?
- 7. For which variety of Indian rice, has a patent been filed by a USA company.
- 8. What is green revolution? Who is regarded as Father of green revolution?
- 9. Name two semi-dwarf varieties of rice developed in India.
- 10. Name an immunosuppressive agent. From where it is obtained?

SECTION - B

 $6 \times 4 = 24$

Note: Answer any six questions. Answer may be limited to 20 lines

- Explain the mechanism of opening and closing of stomata.
- 12. Explain different types of co-factors.
- 13. Define RQ. Write a short note on RQ.
- 14. Write short notes on seed dormancy.
- 15. Explain the structure of TMV.

11.

- 16. Mention the advantages of selecting pea plant for experiment by Mendel.
- 17. Draw the schematic/diagrammatic presentation the operon.
- 18. Give a brief account of Bt cotton.

SECTION - C

 $2 \times 8 = 16$

Note: Answer any **two** questions. Answer may be limited to **60** lines

- 19. Explain Calvin cycle.
- 20. Explain briefly the various processes of recombinant DNA technology.
- 21. Write a brief essay on microbes in sewage treatment.