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Exam. Code : 103205

Subject Code: 1345

B.A./B.Sc. 5th Semester

BOTANY

(Plant Physiology)

Paper—VA

Time Allowed—3 Hours]

[Maximum Marks—35

Note: There are total of nine questions. All questions have 7 marks each. Question No. 1 is compulsory.

Answer each in 3-4 lines. From remaining eight equations, candidate is required to attempt any four questions.

- 1. (a) Define diffusion.
 - (b) Write a short note on hydroponics.
 - (c) Define action and absorption spectra.
 - (d) What is florigen concept?
 - (e) Define seed dormancy.
 - (f) Define phytochromes and cryptochromes.
 - (g) Define senescence

 $1 \times 7 = 7$

- 2. Briefly explain the following:
 - (a) Physiology of stomata
 - (b) Transport of water and transpiration. $3.5 \times 2=7$

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(Contd.)

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- 3. Write short note on importance of water to plant life and also explain the physical properties of water. $3.5 \times 2=7$
- 4. Describe the mechanism of mineral uptake in plants. $3.5 \times 2=7$
- 5. What is sources-sink relationship? Describe the mechanism of phloem transport. 3.5×2=7
- 6. Write short notes on:
 - (a) Photosystem-I
 - (b) Z-scheme. $3.5 \times 2 = 7$
- 7. Write short notes on:
 - (a) Calvin cycle
 - (b) C4 pathway. $3.5 \times 2 = 7$
- 8. Briefly explain the following:
 - (a) Plant movement and photoperiodism
 - (b) Seed germination and factor that regulate seed germination. $3.5 \times 2=7$
- 9. Write short notes on:
 - (a) Auxin
 - (b) Gibberellins. $3.5 \times 2 =$

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