

35012

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

THIRD SEMESTER

Botany

Paper II — PLANT PHYSIOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

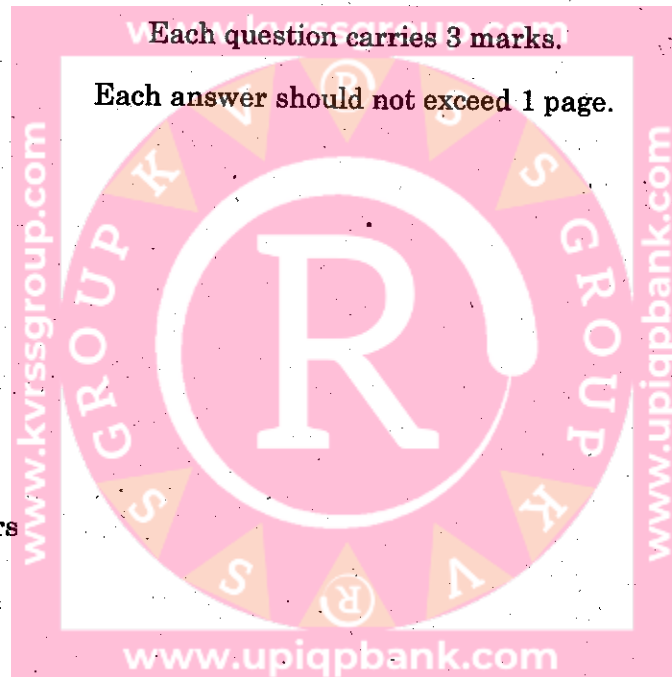
PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Antitranspirants
2. Ion channels
3. Asymbiosis
4. Nodule formation
5. Salicylic acid
6. Hormone receptors
7. Phytoremediation
8. Osmotins



PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Mention the uptake and translocation of solutes in plants.

Or

10. Discuss the SPAC concept in detail.

11. Give an account on deficiency symptoms of essential elements in plants.

Or

12. Write a note on the mechanism of nitrogen fixation.

13. Describe the biosynthesis and physiological effects of Auxins.

Or

14. Bring out the salient features of signal transduction.

15. Explain the effects of abiotic stresses in plants.

Or

16. How the plants overcome the heavy metal stress?

