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M.Sc. DEGREE EXAMINATION, NOVEMBER 2016.

FIRST SEMESTER

Botany

Paper I — BIOLOGY AND DIVERSITY OF VIRUSES, BACTERIA, FUNGI AND PLANT-PATHOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

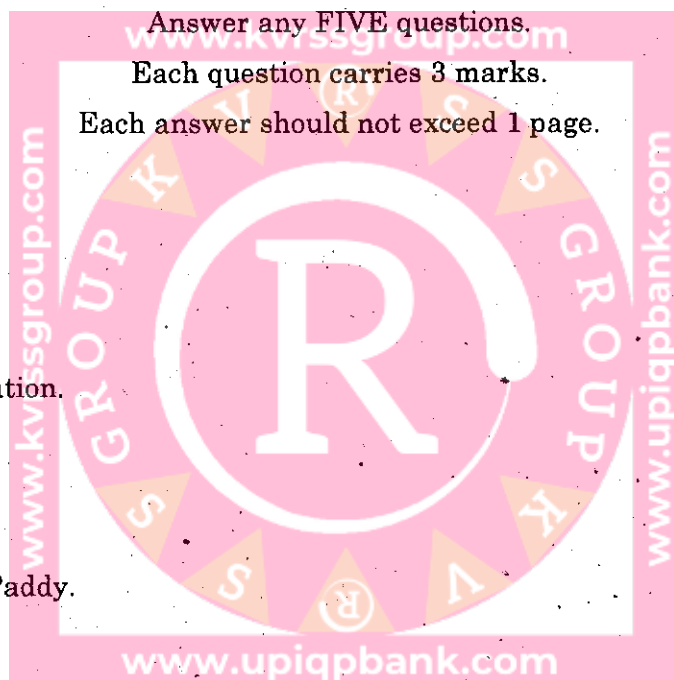
PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Viron.
2. Prions.
3. Conjugation.
4. Genetic recombination.
5. Lichens.
6. Heterokaryosis.
7. Blight disease of Paddy.
8. TMV.



PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Write a note on isolation and purification of viruses.

Or

10. Give an account on general characters of viruses.
11. Write an account on ultra structure of bacteria.

Or

12. Explain the general characters and economic importance of phytoplasma.

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13. Discuss the recent classification of fungi.

Or

14. Describe the Basidiomycotina and its importance.

15. Mention the plant fungal diseases and their control measures.

Or

16. How do identify the red rot of sugar cane and how to control it?

