FACULTY OF SCIENCE

M.Sc. II-Semester Examination, May / June 2017

Subject: Microbiology
Paper- II
Environmental & Agriculture Microbiology

Time : 3 Hours
Max. Marks: 80

PART – A (8x4=32 Marks)
(Short Answer Type)

1. Oxidation Ponds
2. Septic Tank
3. Biodegradable plastic
4. Pesticides
5. Carbonaceous material in soil
6. Nitrate and Phosphate pollution
7. Blue green algae
8. Mycorrhizae

PART – B (4x12=48 Marks)
(Essay Answer Type)

9. (a) Explain the mechanism of Aerobic sewage treatment
       OR
(b) Write an essay on anaerobic sewage treatment methods.

10. (a) Discuss the role of microorganisms in the degradation of organic pollutants.
       OR
(b) Give a detailed account on biogeochemical cycles.

11. (a) Write an essay on decomposition of carbonaceous materials in soil.
       OR
(b) What is Denitrification? Explain the microbial mechanism of Denitrification.

12. (a) Write an essay on symbiotic and asymbiotic nitrogen fixation.
       OR
(b) Give a detailed account of different types of Biofertilizers.

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