ESH 403

First Semester M.Sc. Degree Theory Examination, December 2018/January 2019 (CBCS) ENVIRONMENTAL SCIENCE Environmental Microbiology

Time : 3 Hours

Max. Marks: 70

Instruction : Answer all the Parts and draw **neat** sketches **wherever** necessary.

PART – A

- Write short notes on any four of the following (not exceeding 2 pages each): (4×4=16)
 - 1) Indicator organisms in waters.
 - 2) Microbes in air.
 - 3) Bioremediation.
 - 4) Solid waste.
 - 5) Soil microbes.
 - 6) Microbial interactions.

PART – B

- II. Write explanatory notes on any five of the following (not exceeding 3 pages each): (5×6=30)
 - 7) Classification of microorganisms.
 - 8) Microbes of extreme environment.
 - 9) Control of pests and diseases by microorganisms.
 - 10) Microbial degradation of pesticides.
 - 11) Microbial influenced corrosion and remedies.
 - 12) Treatment of liquid industrial wastes.
 - 13) Role of Microbes in metal extraction.

ESH 403

PART – C

- III. Answer any two of the following (not exceeding 8 pages each): (2×12=24)
 - 14) Explain the role of microorganisms in CNS cycles.
 - 15) Describe the methods of sampling and identification of microbes.
 - 16) Write about genetically modified microorganisms and their ecological implications.
