Reg. No. | | | | | | | | | |

MBS 554

IV Semester M.Sc. Degree Examination, September/October 2022
(CBCS-PG-CGPA)
MICROBIOLOGY
Bio-Nanotechnology

Time : 3 Hours Max. Marks : 70

I. Write short notes on **any five** of the following : **(5×3=15)**

1) X-ray diffraction.
2) Genotoxicity.
3) SERS Magnetic.
4) Actinomycetes.
5) FTIR.
6) Nanofilteration.
7) Nanoremediation.

II. Write notes on **any five** of the following : **(5×5=25)**

8) Electrical and Electrochemical properties of Nanoparticles.
9) Biopolymeric nanoparticles.
10) Nano medicine and its developments.
11) Potential risk of nanomedicines.
12) Principles of nanoparticles synthesis.
13) Role of nanoparticles in food preservations.
14) Toxicity evaluation.

III. Answer **any three** of the following : **(3×10=30)**

15) Give a detailed account on types, properties and characterization of nanoparticles.
16) Describe Biological synthesis of nanoparticles using bacteria and fungi.
17) Discuss the role of nanoparticles for targeted drug delivery in cancer therapy.
18) Describe the role of green nanotechnology.
19) Discuss the role of nanotechnology in water and waste water treatment.
