

ADMISSION NUMBER

School of Biological and Life sciences Bachelor of Science Honours in Microbiology

Semester End Examination - May 2024

Duration: 180 Minutes Max Marks: 100

Sem VI - P1UC603T - Nanobiotechnology

General Instructions Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	List the properties of grinding media in ball milling method of synthesis of nanomaterial.	K1 (2)
2)	Explain nanobiosensor and how does it differ from traditional biosensors?	K2 (4)
3)	Explain the limitations or challenges associated with biological synthesis of nanomaterials.	K2 (6)
4)	Illustrate the advantages of green synthesis of nanomaterial over other methods of synthesis?	K3 (9)
5)	Identify some metal oxide nanoparticles and their biomedical applications.	K3 (9)
6)	Interpret the challenges associated with biosensor miniaturization and mass production for commercial applications.	K5 (10)
7)	Discuss the metal nanoparticle coating in agricuture.	K4 (12)
8)	Assess the synthesis of nanomaterials using microorgansims.	K5 (15)
9)	Discuss the mode of AgNP application in agriculture.	K5 (15)
10)	Design an experiment to synthesize and characterize silver nanoparticle using plant extract.	K6 (18)