Name. _____ **Student Admn. No.: _____**	**Printed Pages:01**

School of Biological and Life Sciences
Summer Term Examination – July - August 2024

[Programme: BSc Microbiology] [Semester: IV) [Batch:]

Course Title: Nanobiotechnology **Course Code: P1UC402T**	**Max Marks: 100** **Time: 3 Hrs.**

Instructions:
1. *All questions are compulsory.*
2. *Assume missing data suitably, if any.*

		K Level	COs	Marks
	SECTION-A (15 Marks) 5 Marks each			
1.	State two examples of the use of Nanomaterials from the History.	K1	CO1	5
2.	Explain the different types of nanomaterials.	K2	CO1	5
3.	Examine the type; bimetallc nanoparticles.	K2	CO5	5
	SECTION-B (40 Marks) 10 Marks each			
4.	Evaluate Photochemical sysnthesis of nanomaterial.		CO2	10
5.	Write the physical methods of synthesizing nanomaterials.		CO2	10
6.	Illustrate the advantages of green synthesis of nanomaterial over other methods of synthesis?		CO3	10
7.	Explore the application of nanobiotechnology in biosensing for food safety and quality control.		CO5	10
	SECTION-C (45 Marks) 15 Marks each			
8.	Illustrate the biological synthesis of nanomaterials.	K5	CO3	15
9.	Design an experiment to synthesize and characterize Gold nanoparticle using plant extract.	K6	CO4	15
10	Discuss the mode of CuNP application in agriculture.	K5	CO6	15