

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

TEST -1 EXAMINATION- FEB-2025

M.Sc -4th Sem (Microbiology)

COURSE CODE(CREDITS): 21MS1MB412(3)

MAX. MARKS: 15

COURSE NAME: Plant &Agricultural Microbiology

COURSE INSTRUCTORS: Dr Hemant Sood

MAX. TIME: 1 Hour

Note: a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

	Question	Marks
Q1	Which biotechnological interventions are playing a major role in Agricultural sciences for crop improvement? Mention any two products developed out of these agricultural biotechnologies for the benefit of the masses having microbial interventions.	2 +2
Q2	How does <i>Agrobacterium</i> help revolutionize the plant development sciences and their products? Conceptualize a methodology for the production of herbicide resistance soyabean by using strain GM3101 and desirable selectable and scorable marker.	1.5+3.5
Q3.	What do you understand by biopharming? How you would like to justify the relevance of the utilization of these products? What are their impacts on biodiversity and ecosystems?	3
Q4.	What is the significance of plant and microbial interactions in agricultural sciences? Explain it with examples.	3