

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

TEST -2 EXAMINATION- APRIL-2025

M.Sc -4th Sem (Microbiology)

COURSE CODE(CREDITS): 21MS1MB412(3)

MAX. MARKS: 25

COURSE NAME: Plant &Agricultural Microbiology

COURSE INSTRUCTORS: Dr Hemant Sood

MAX. TIME: 1 Hour 30 min

Note: a) All questions are compulsory.

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

	Question	Marks
Q1	How modern concept of plant disease management is implemented? How are integrative management techniques used for the crop improvement programs? Explain by citing an example	5
Q2	How would you design a process for the development of biofertilizer which could be effectively utilized for the enrichment of growth and development of different crop plants in India?	5
Q3.	Which microbiological and biotechnological interventions are required in the production of disease free plants of canola by genetic modulations? Mention any case study carrying concerns of mitigated risks and ethical considerations for the same .	5
Q4.	Why do we need different types of biofertilizers? How you can classify those? Explain with examples and also mention the constraints associated with the production and application of the same.	5
Q5.	What are the different ways of controlling fungal infections in crops? How biological controls are appearing more effective than chemical controls? Explain with examples	5