

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- APRIL-2023

M.Sc -4th Sem (Microbiology)

COURSE CODE(CREDITS):21MS1MB412

MAX. MARKS: 25

COURSE NAME: Plant & Agricultural Microbiology

COURSE INSTRUCTORS: Dr Hemant Sood

MAX. TIME: 1 Hour 30 minutes

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

Q1. How you can classify biofertilizers? Which type of biofertilizer is most effective in crop improvement and what is the mode of action? Do any developmental constraints affect the efficacy of biofertilizers? (5)

Q2. How you would like to use fungicides for treating diseases occurred on different parts of the plants? Which formulations you would be using and how you are applying on the plants? (5)

Q3. Which microbiological and biotechnological interventions are required in the production of bioactive compounds from medicinal herbs under the *in vitro* setup? Mention any case study for the same. (5)

Q4. How Integrated pest management program is carried out in India for crop improvement? How pest or disease management strategies would be utilized for the protection of crops from losses? (5)

Q5. What do you understand about the concept of plant quarantine? How its regulation is carried out in India? What are the different methods for carrying out diagnoses of plant diseases? What are the control action guidelines for diseases infestation? (5)