

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATIONS-2022

M. Sc. I Semester (MICROBIOLOGY)

COURSE CODE (CREDITS): 21MS1MB113 (2)

MAX. MARKS: 15

COURSE NAME: FUNGAL BIOLOGY

COURSE INSTRUCTOR: DR. JATA SHANKAR

MAX. TIME: 1 Hour

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

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Q1. 1 Fungal pathogens of plants can penetrate through an intact host surface to invade host surface preceded by production of specialized infection structures of various types Write of infection structures of plant pathogens? [3 marks] COI

Q2. Mucorales are fast-growing, thermo tolerant fungi that are ubiquitous in soil, on fruit, dust, and decaying vegetation worldwide and Mucorales are considered opportunistic pathogens, requiring a suppressed immune system or another underlying condition to cause disease, and are the third most common cause of IFIs in immunocompromised patients. Describe the life cycle of Mucor with their infective stage? [3 marks] COI

Q3. Describe the following [each 1.5 marks]COI and COII

- a. Classification of fungi
- b. Dimorphic fungi with example
- c. Cell wall component of fungi
- d. Stages in life cycle of a model organism *Saccharomyces cerevisiae* and time duration to complete the a life cycle
- e. Tempeh
- f. Sake