

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATIONS-2025

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

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

Q. No	Question	Marks
Q1	What are the primary criteria used in the classification of fungi? Provide an overview of the major taxonomic groups and how fungi are categorised based on characteristics such as morphology, reproductive strategies, and genetic analysis.	3
Q2	What are the key applications of fungal systems in fermented food products? Provide a relevant example to illustrate these applications	3
Q3	Provide a detailed textual description of the life cycle of yeast cells (<i>Saccharomyces cerevisiae</i>) along with labels for each stage. The genetic content haplod (n) or diploid (2n) status should be included in each stage of the life cycle	3
Q4	What is mucor, and how does it help to establish the infection in host tissue? Draw the life cycle of Mucor belonging to Zygomycota.	3
Q5	Provide a detailed explanation of the Mushroom. Describe key nutritional components and their significance in various health benefits. Additionally, highlight any potential applications in managing the diseases	3