

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-2 EXAMINATION-2022

M.Sc.-I Semester (BT)

COURSE CODE (CREDITS): 21MS1MBT113 (2)

MAX. MARKS: 25

COURSE NAME: FUNGAL BIOLOGY

COURSE INSTRUCTORS: DR. JATA SHANKAR

MAX. TIME: 1 Hour 30 Min

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

- Q1. Mushroom and Rust fungi differ in their mode of life style; explain the mode of nutrition and their requirements to complete the life cycle? 3 marks [CO II]
- Q2. Haustaria is the infecting structure belonging to a fungal family,; write about the fungi and their life cycle? 3 marks [CO II]
- Q3. Describe the genome size and estimated number of genes in *S. cerevisiae*? 3 marks [CO I]
- Q4. What is Aflatoxin? How many types of Aflatoxin are there in *Aspergillus flavus*? Draw the structure of Aflatoxin? 3 marks [CO I & II]
- Q5. What is carcinogen? Name few fungal toxins produced from fungi that are carcinogenic in nature? 3 marks [CO II]
- Q6. Write on following; 10 marks (each carry 2.5 marks) [CO I & COII]
- Plasmid in yeast and expression vector
 - Mucromycosis
 - Nutritional value in mushroom
 - Smut fungi