

B.Sc. Semester - 3 (NEP-2020) Examination**OCT/NOV-2025****BOT: Mycology and Phyto Pathology (Major-5)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Describe in detail: (Any One) (08)
- 1) Describe briefly various methods of sexual reproduction in fungi.
 - 2) Give an account of the economic importance of fungi?
- Que.1(B) Write short note: (Any One) (04)
- 1) How will you differentiate a conidium, an Ascospore and a basidiospore?
 - 2) Differentiate between: Saprophyte and Symbiont.
- Que.2(A) Describe in detail: (Any One) (09)
- 1) Describe the vegetative structure and asexual reproduction in *Rhizopus*.
 - 2) What do you understand by sclerotial stage of *Claviceps*? Describe the formation and germination of sclerotium in this fungus.
- Que.2(B) Write short note: (Any One) (04)
- 1) Write short note on Mycorrhiza.
 - 2) Write short note on fruiting body of *Claviceps*.
- Que.3(A) Describe in detail: (Any One) (08)
- 1) Describe the structure of the basidiocarp in *Agaricus* with the help of diagram.
 - 2) What are lichens? Describe sexual reproduction in lichens.
- Que.3(B) Write short note: (Any One) (04)
- 1) Explain with diagram: Button stage in *Agaricus*.
 - 2) Write a note on internal structure of lichen thallus.
- Que.4(A) Describe in detail: (Any One) (09)
- 1) How will you define pathogenesis? Give a detailed account of the phenomenon of infection.
 - 2) Describe the main symptoms, nature of causal organism, Predisposing factors and control measures of citrus canker.
- Que.4(B) Write short note: (Any One) (04)
- 1) Write a short note on Disease symptoms and Disease control of white rust of crucifers.
 - 2) Write a short note on Disease cycle and control measures of Black rust of wheat.
