

Raja N.L.Khan Women's College (Autonomous)
BOTANY [PG-CBCS]

End Semester Examination 1st semester

PAPER: BOT 103

MYCOLOGY & PLANT PATHOLOGY

Full Marks: 40

Time: 2 Hrs

The figures in the right hand margin indicate marks.

Unit -1

Q1. Answer any four questions.

1 x 4 = 4

- i) What is G protein?
- ii) Define Dolipore Septum.
- iii) What is parasexuality in fungus?
- iv) What is woronin body?
- v) What are ballistospores?
- vi) What is meant by aflatoxicosis?
- vii) What is conidiogenesis?

Q2. Answer any two questions.

4x 2 =8

- i) Distinguish between holocarpic and eucarpic fungi with examples. Mention the different types of hyphal modifications found in fungi. 1+3
- ii) Write down the uses of fungi in pharmaceutical industries 4
- iii) Write a short note on phytoalexins. 4
- iv) Discuss the different types of fungal nutrition. 4

Q3 Answer any one question.

8

- i) Describe the mechanism of basidiospores discharge with suitable diagrams. (6+2)
- ii) Discuss the different types of sexual reproduction found in Ascomycotawith suitable diagrams. (5+3)

Unit –II

Q.1 Answer any four questions.

1 x 4 = 4

- i) Who is known as the 'Father of Plant Pathology' in India?
- ii) Compare between hypertrophy and hyperplasia.
- iii) What do you mean by Induced defence?
- iv) What is FLOs?
- v) What is Necrotrophy?

- vi) What is inoculum?
- vii) What is pandemic disease?

Q2. Answer any two questions.

4x 2 =8

- i) Discuss role of Auxin as a growth regulator in host pathogen relationship? 4
- ii) Classify plant diseases on the basis of symptoms. 4
- iii) Write a short note on fungi as biological control agent. 4
- iv) Explain systemic acquired resistance with suitable diagrams. 2+2

Q3 Answer any one question.

8

- i) What is Epidemiology? Describe with Diagram about the symptoms and disease cycle of Black Stem rust of wheat. 2+3+3
- ii) Explain in detail the different phases of zig zag model of inducible plant defence. Mention two significances of PR proteins (6+2)