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**BOS 455**

**II Semester M.Sc. Examination, September/October 2022**

**(CBCS)**

**BOTANY**

**Molecular Plant Pathology**

**(Soft Core)**

Time : 3 Hours

Max. Marks : 70

I. Answer **any three** of the following. **Each** answer **not** exceeding **five** pages.

**(3×10=30)**

- 1) Discuss the recent developments in understanding the genetic basis of pathogen-host interactions.
- 2) Write a detailed account on the structural and chemical defense in plants.
- 3) Describe the role of systemic signal transduction in plants.
- 4) Explain the symptoms and management of coffee rust and leaf spot of cabbage.
- 5) Discuss the physical, chemical and biological control of plant diseases.

II. Write notes on **any six** of the following. **Each** answer **not** exceeding **three** pages.

**(6×5=30)**

- 6) Systemic acquired resistance.
- 7) Plant quarantine.
- 8) Phytoalexins.
- 9) Vertical resistance.
- 10) Seed cycle.
- 11) Panama disease of Banana.
- 12) Apple scab.
- 13) Crop certification.

P.T.O.



III. Write short notes on **any five** of the following. **Each** answer **not** exceeding **one** page. **(5×2=10)**

- 14) Lipoxygenases.
  - 15) Plantibodies.
  - 16) H.H. Flor.
  - 17) Elicitor.
  - 18) Transgenic plants.
  - 19) Wilt of Tomato.
  - 20) Bordeaux mixture.
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