

**BACHELOR OF SCIENCE (CBCS - 2016 COURSE)**  
**T. Y. B Sc. Sem-V : WINTER- 2022**  
**SUBJECT : BOTANY : PLANT PATHOLOGY & PLANT PROTECTION**

Day : Monday

Time : 02:00 PM-05:00 PM

Date : 12/12/2022

**W-14952-2022**

Max. Marks : 60

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat labelled diagrams **WHEREVER** necessary.
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**Q.1** Attempt any **TWO** of the following: **(12)**

- a) Describe structural defense mechanism of pathogen attack.
- b) Describe symptoms and control measures of Downy mildew of grapes.
- c) Describe IPM system in disease control.

**Q.2** Attempt any **TWO** of the following: **(12)**

- a) Explain Coks's postulates in short.
- b) Describe the 'disease triangle' in short.
- c) Write in short about 'Quarantine laws'.

**Q.3** Attempt any **TWO** of the following: **(12)**

- a) Explain transmission and control of plant virus diseases.
- b) Describe importance of remote sensing in plant pathology.
- c) Write symptoms and control measures of Tikka disease of groundnut.

**Q.4** Attempt any **THREE** of the following: **(12)**

- a) Give any two environmental factors affecting disease development.
- b) Describe the mechanism of pathogenesis.
- c) Describe epidemiology in detail.
- d) What is eradication? Explain its role in disease control.

**Q.5** Attempt any **FOUR** of the following: **(12)**

- a) Write a note on seed certifications in respect to disease control.
- b) Explain the concept of 'Molecular diagnostics'.
- c) Give symptoms of Black arm of cotton.
- d) Explain sanitary measures in plant disease control.
- e) What is crop rotation? Explain.
- f) Explain concept of 'disease clinic'.

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