

**T.Y.B.SC. SEM – V (2014 COURSE) : WINTER - 2017**

**SUBJECT: BOTANY : PLANT PATHOLOGY & PLANT PROTECTION**

Day: Friday  
Date: 27/10/2017

**W-2017-0652**

Time: **3:00 P.M. TO 5:00 P.M.**  
Max Marks. 40

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary
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**Q.1** Attempt any **TWO** of the following **(10)**

- a) What are plant diseases? Describe host and pathogen interaction.
- b) How are plant diseases classified? Explain with reference to fungi.
- c) Define disease clinic and comment on Kotch postulates.

**Q.2** Attempt any **TWO** of the following **(10)**

- a) Describe the role of environmental factors in determining the inoculum of plant diseases?
- b) Define epidemiology and comment on sporadic diseases.
- c) Define pathogenesis and explain rust of wheat (black stem)

**Q.3** Attempt any **TWO** of the following **(10)**

- a) Describe the symptoms and control measures of black arm of cotton.
- b) What is molecular manipulation? How crops can be made disease resistance by molecular manipulation.
- c) How information technology can be used in protecting plant pathology?

**Q.4** Attempt any **FIVE** of the following **(10)**

- a) Antibiotics
- b) Quarantine laws
- c) Write any two symptoms of little leaf of brinjal
- d) Biopesticides
- e) Crop rotation
- f) What are pathogens and how they cause disease in plants
- g) Comment on transgenic plants

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