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V—57—2017

FACULTY OF SCIENCE

B.Sc. (Third Year) (Fifth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2017

BOTANY

Paper XIII

(Optional-I)

(Plant Pathology—I)

(Friday, 10-11-2017)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) All questions carry equal marks.

(iii) Draw neat and well labelled diagrams wherever necessary.

1. Describe isolation of plant pathogens from infected plant parts and air.

Or

Write in brief :

(a) Koch's postulates

(b) Pure culture technique.

2. Describe dispersal of plant pathogens by air and insects.

Or

Write notes on :

(a) Effect of moisture on disease development

(b) Mode of entry of plant pathogens through wounds.

3. Describe symptoms, causal organism, disease cycle and control measures of red rot of sugarcane.

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Or

Write in brief :

- (a) Yellow vein mosaic of Bhendi
- (b) Symptoms and control measures of green ear of Bajra.

4. Describe symptoms, causal organism, disease cycle and control measures of Whip Smut of Sugarcane.

Or

Write notes on :

- (a) Citrus Canker
- (b) Bean Mosaic.

5. Write short notes on any *four* of the following :

- (i) Scope of plant pathology
- (ii) Effect of soil pH on disease development
- (iii) Symptoms of Tomato leaf spot
- (iv) Control measures of angular leaf spot of cotton
- (v) Disease cycle of white rust of Mustard
- (vi) Control measures of leaf spot of Turmeric.

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