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W—61—2018

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2018

(CBCS Pattern)

BOTANY

Paper XIII

(Plant Pathology—I) (Optional—I)

(Tuesday, 16-10-2018)

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. Attempt any *four* of the following : 8

- (a) Importance of plant pathology
- (b) Dispersal of plant pathogens by insects
- (c) Control of angular leaf spot of cotton
- (d) Symptoms of white rust of Mustard
- (e) Isolation of plant pathogens from soil
- (f) Causal organism of green ear of Bajra

2. Attempt any *two* of the following : 8

- (a) Koch's postulates for pathogenicity
- (b) Effect of moisture on disease development
- (c) Pure culture technique

3. Attempt any *one* of the following : 8

- (a) Describe classification of plant diseases on the basis of causal organism.
- (b) Describe mode of entry of pathogens through stomata and wounds.

P.T.O.

- 4. Attempt any *two* of the following : 8
 - (a) Anthracnose of Mango
 - (b) Leaf spot of Tomato
 - (c) Sigatoka disease of Banana

- 5. Attempt any *one* of the following : 8
 - (a) Describe symptoms, causal organism, disease cycle and control measures of red rot of Sugarcane.
 - (b) Describe symptoms, causal organism, disease cycle and control measures of powdery mildew of Pea.