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NY—390—2023

FACULTY OF SCIENCE

M.Sc. (Second Year) (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

BOTANY

Paper XIX

(Seed Technology–IV)

(Seed Health Testing and Management)

(Friday, 15-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Each question carries equal marks.

(iii) Draw neat and well labelled diagram.

1. What are Mycotoxins ? Describe in detail their effect on human and animal health. 15

Or

What are storage fungi ? Explain in detail biochemical changes occurred during infection. 15

2. Define seed health testing. Describe objectives of seed health test and add a note on inspection of dry seeds. 15

Or

Describe in detail blotter and agar plate test for examination of colonies developed from seeds. 15

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3. Describe the different methods of seed treatment. 15

Or

What is fumigation ? Describe the principles of fumigation and safe use of fumigants. 15

4. What is seed certification ? Describe development of certification concept. 15

Or

Explain in detail seed legislation. 15

5. Write short notes on (any *three*) : 15

(a) Rhizopus

(b) Seedling symptom test

(c) Pesticides

(d) Field inspection

(e) Fusarium.

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