

Roll No :

Total No. of Questions : 11]

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SP-661

M.Sc. (Final) Examination, 2021

BOTANY

Paper - VIII (a)

(Advanced Plant Pathology-II)

Time : 1½ Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit 50 words). Each question carries 2 marks.

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit 200 words). Each question carries 5 marks.

(खण्ड-ब)

(अंक : 5 × 5 = 25)

नोट :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit 500 words). Each question carries 10 marks.

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक का है।

BI-302

(1)

SP-661 P.T.O.

Section–A

2 each

1. Answer in short :

- (i) What do you mean by Pathogenesis ?
- (ii) What are the basic difference between gram positive and gram negative bacteria ?
- (iii) Differentiate the canker and scab.
- (iv) What do you mean by soft rot symptoms ?
- (v) Citrus canker is a systemic disease. Write comments to prove it.
- (vi) What are the most common symptoms of cucumber mosaic disease ?
- (vii) What do you know about Meloidogyne ?
- (viii) What type of practice manners are use to manage the Molya disease ?
- (ix) Name the causal agent which are responsible for black tip of mango.
- (x) What are important symptoms of cordia leaf gall ?

Section–B

2. Describe the symptomatology of plant pathogenic bacteria.

5

Or

Write short notes on the following :

- (a) Serology
 - (b) Nomenclature of bacterial pathogen 3,2
3. Describe the symptoms, causal organism, disease cycle and control measure of bacterial blight of rice. 5

Or

Write a detailed note on angular leaf spot of cotton.

5

4. Write short notes on the following :

- (a) Acquired immunity
- (b) Isolation of viruses 2,3

Or

- Describe the symptoms, causal organism, transmission and control of Tobacco necrosis. 5
5. Describe the anatomy of phytopathogenic nematodes. 5

Or

- Write a note on Root Knot of vegetables. 5
6. What are Non-parasitic Diseases ? Discuss the disease due to deficiency of hydrogen fluoride. 1,4

Or

- Write a note on mechanism of insect gall. 5

Section–C

7. Describe in detail the physiological and cytological aspects of bacterial infection process and disease development. 5,5
8. Describe symptoms, causal organism, disease cycle and control measure of Red stripe of sugarcane. 10
9. Describe phytopathologically the Bhindi yellow mosaic disease. 10
10. Describe the main symptoms, causal organism, disease cycle and methods of control of ear cockle disease of wheat. 10
11. Give an illustrated account on some insect plant galls of Rajasthan. 10