



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination - January 2021
V Semester

Class : III UG
Major : Botany

Time : 3 Hours
Max. Marks : 100

18BBOC15 Plant Pathology

PART A

10 x 1 = 10

Choose the Correct Answer

- Which one of the culture collection centre is authorized by Government of India
a. IARI, New Delhi
b. IMTECH, Chandigarh
c. NBAIM
d. Agharkar research institute Pune
- The nematodes are
a. Monoblastic
b. Duoblastic
c. Triploblastic
d. None of the above
- In which of the following diseases, plant chlorophyll of the leaves get destroyed and leaves get stippled,
a. Mosaic disease of tobacco
b. Citrus canker
c. Tundu disease of wheat
d. Rhizotonia
- Hairy root syndrome is caused by
a. *Agrobacterium tumefaciens*
b. *A. rhizogens*
c. *A. albrtimagni*
d. *Allorhizobium vitis*
- A form canker in citrus is caused by
a. *Xanthomonas compestris* PV. Citri
b. *Xanthomonas axonopodis* PV. Citri
c. *Xanthomonas axonopodis* PV. Aurantifolia
d. *Xanthomonas axonopodis* PV. Citrumulo.
- Early leaf spot disease in *Arachis hypogea* is caused due to the infection of
a. *Cercospora personata*
b. *Agrobacterium tumefaciens*
c. *Phytophthora infestans*
d. *Gibberella fujikuroi*
- Club root of crucifers is caused by
a. Fungi
b. Bacteria
c. Nematodes
d. Virus
- Little leaf of brinjal disease is transmitted by
a. Vector
b. Air
c. Water
d. Contact
- Soil borne pathogens can be best managed by
a. Fungicide application
b. Hot water treatment
c. Biological control
d. Mixed cropping
- Carbedazim bind to the
a. Cell wall
b. Cell membrane
c. Spindle fibre
d. Outer matrix.

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Write short notes on parasitic flowering plant.
(or)
11.b. Nematodes as plant pathogens – Discuss.
- 12.a. Describe the morphological symptoms of necrosis.
(or)
12.b. Comment on hypoplasia.
- 13.a. Give a detailed account on citrus canker.
(or)
13.b. Write the casual organism symptoms and control measures of red rot of sugarcane.
- 14.a. Briefly explain about wart disease of potato.
(or)
14.b. Discuss about club root of crucifers.
- 15.a. Give an account on plant quarantine.
(or)
15.b. How will you eradicate inoculums? Explain.

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Discuss the effect of environment on plant diseases.
(or)
16.b. Write about infectious and non-infectious plant diseases.
- 17.a. Classify the plant diseases based on their occurrence and major casual agent.
(or)
17.b. What is hyperplasia? Explain.
- 18.a. Write the casual organism symptoms and control measures of Tikka disease of groundnut and Blast disease of paddy.
(or)
18.b. Write an essay on Leaf curl of papaya and Bacterial blight of cotton.
- 19.a. Describe the casual organism, symptoms and control measures of Little leaf of brinjal and Leaf spot of cucumber.
(or)
19.b. Comment on Sandal spike and Loose smut of wheat.
- 20.a. Discuss about different types of spraying and dusting.
(or)
20.b. How will you eliminate pathogens? Explain.
