

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(Second Semester)

Branch – BOTANY

PLANT PATHOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. The pathogen perpetuates through the agency of air is -----
(a) soil borne (b) seed borne
(c) air borne (d) None of the above
2. ----- is not related to necrosis
(a) curling of leaves (b) death of tissues
(c) symptom of fungal disease (d) discolouration of leaves
3. Red rot of sugarcane is caused by -----
(a) Bacteria (b) Fungi
(c) Virus (d) Mycoplasma
4. The protein coat of viruses that enclose the genetic material is called _____.
(a) Virion (b) Capsid
(c) Peplomers (d) Capsomers
5. Rice yellow dwarf is caused by
(a) Bacteria (b) Fungi
(c) Virus (d) Mycoplasma

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a. Explain the scope of plant pathology ?
Or
b. Highlight on the defense mechanism of plants.
7. a. Comment on the enzymes in plant diseases.
Or
b. Bring out the symptoms of bacterial diseases.
- 8.a. Can you list the symptoms of rust of wheat.
Or
b. Comment on the disease cycle of red rot of sugarcane.
- 9.a. Give an account on the symptoms of vein disease of bhendi with illustrations.
Or
b. Outline the disease cycle of bacterial blight of Paddy.
- 10.a. Give an account on disease caused by nematodes.
Or
b. Compare and contrast virus and mycoplasma.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11.a.. Elucidate on Koch's postulates.

Or

b. Write in detail about the host penetration through stomata.

12.a.. Summarise on toxins.

Or

b. Highlight the control methods of fungal plant diseases.

13.a. Can you explain about wheat rust problem in India.

Or

b. Write an essay on tikka disease of groundnut.

14.a. Elaborate on any three diseases caused by bacteria.

Or

b. Write an essay on bean mosaic virus.

15.a. Elaborate on little leaf of brinjal.

Or

b. Differentiate between virus and mycoplasma.

Z-Z-Z END