

C 25284

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2022

Organic Farming

SDC 4AG 14—FUNDAMENTALS OF PLANT PATHOLOGY

(2020 Admissions)

Time : Three Hours

Maximum : 80 Marks

(A) Very Short Objective Answer Questions. 1 mark each :

- 1 Viroids differ from Viruses in having _____.
- 2 Name the general processes of sexual reproduction in fungi.
- 3 When a parasite kills the host tissue in advance of penetration and lives saprophytically it is known as _____.
- 4 The cell wall of the mycelium of true fungi (Eumycota) contains _____.
- 5 Gram positive bacteria belongs to the group _____.
- 6 Give an example of host specific toxin.
- 7 Grassy shoot disease in sugarcane is caused by _____.
- 8 Mature particles of a plant virus is generally known as _____.
- 9 The naked multinuclear mass of protoplasm is called _____.
- 10 The capsule in bacteria is made up of _____.

(10 × 1 = 10 marks)

(B) Short Answer Questions. Answer any *eight* questions. 2 marks each :

- 11 Write the difference between symptoms and signs of plant disease.
- 12 What is Smut ?
- 13 Name the four diseases controlled by plant quarantine.
- 14 Write different approaches of Integrated Disease Management System
- 15 Write a short note on wilt.
- 16 What is crop rotation ?

Turn over

- 17 What are the main objectives of the Subject discipline of Plant Pathology ?
- 18 What is Virulence ?
- 19 Define disease triangle ?
- 20 Name the four phyla of kingdom fungi.
- 21 What are the main characters of virus which separate them from other pathogens ?
- 22 What is Cercosporin ?

(8 × 2 = 16 marks)

(C) Short Essay. Answer any *six* questions. 4 marks each :

- 23 Write difference between gram positive and gram negative bacteria, give examples.
- 24 Write briefly about morphology of fungi.
- 25 Write short note on disease pyramid.
- 26 Give short note on types of IDM.
- 27 What are the physical methods to control plant disease ?
- 28 Write about pectic substances and its degradation.
- 29 Mention the characteristics of protozoa.
- 30 Explain the methods of virus transmission in plants.
- 31 Briefly describe inoculum, inoculation and inoculum potential.

(6 × 4 = 24 marks)

(D) Essay. Answer any *two* questions. 15 marks each :

- 32 Bacterial cell structure.
- 33 Essay on Reproduction in fungi.
- 34 Write the methods of forecasting the plant diseases with two examples.
- 35 Effect of environmental factors on disease development.

(2 × 15 = 30 marks)