

**PART-B**

1. Signature of invigilator on answer booklet is compulsory.  
 2. All answers to the questions IV, V and VI should be written on appropriate pages only.

**Q IV. Answer any five (5) of the following questions 5 x 1 mark = 5**

1. Colleteral host
2. Soil inhabiting fungi
3. Soil invading fungi
4. Eradication
5. Disease incidence
6. disease severity
7. Alternate host

**Q V. Answer any five (5) of the following questions 5 x 2 mark = 10**

1. Hypersensitive reaction
2. Remote sensing
3. Effect of temperature
4. Simple interest disease
5. Compound interest disease
6. Parasexuality
7. Saltation disease

**Q VI. Answer any five (5) of the following questions 5 x 3 mark = 15**

1. Explain the difence mechanism in the plants
2. Explain the dissemination of The plant pathogens.
3. Describe the cultural methods for plant disease management.
4. Explain the Integrated plant disease management
5. Explain the classification of fungi
6. Explain the modification of mycelium
7. Explain the economic importance of diseases

**END OF PART - A& B QUESTION PAPER 02 November, 2023**



PAT-102 FE UHS22UG AY.2022-23



Final examination:

**PAT-102(2+1): Fundamentals of plant pathology**  
**Date & time of Exam: 02.11.2023 (10:30 ~12:30)**

**Set A**

Name of the Student ..... ID No. UHS22UG.....

College of Horticulture,..... College Code.....

**Instructions to the Students:**

**Total marks: 50 (Part- A : 20 marks and Part- B : 30 marks)**

**Part - A Question paper:Answer within 30 min.**

**All answers should be written only in OMR Sheet.**

**Write the Correct Part-A Question paper Set Code in OMR sheet.**

**Get the signature of the invigilator on your Part- A QP.**

**Part- A**

**Q.I. Select the most correct answer A/B/C/D for the following questions. 20 x 0.5 mark = 10 Marks**

- B** 1. The blight of apple and pear caused by  
 (a) *Phomopsis vexans* ✓ (b. *E. Amylovora*)  
 (c.) *A. Tumefaciens* d. None of these
- B** 2. Virion is technical term used for  
 a. Bacteria ✓ b. Virus  
 c. Nemetode d. *R. Stolonifer*
- D** 3. Insufficient light causes...  
 a. Apple scab ✓ b. *Cercospora* spp  
 c. Alternaria leaf ✓ d. Etiolation
- D** 4. Whiptail of cauliflower caused due to.....  
 a. Mg b. Al c. Ca ✓ d. Molybdenum
- C** 5. The oil immersion lense were introduced by.....  
 a. Robert Koch b. Carl Zeiss ✓ c. Erms Abbe d. Both c and d
- C** 6. Clorosis of leaves, petioles and the veins distinctly red due to  
 a. Sulpher b. Iron ✓ c. Maganesium d. Zink
- A** 7. Air pollutants are  
 ✓ a. Ozone b. Nitrogem c. Phosphorus d. Magnesium

## Set A PAT-102(2+1): Fundamentals of Plant Pathology

Q.11. Enter TRUE(T) / FALSE(F) for the following statements in OMR  
sheet 10 x 0.5 = 5 Marks

21. Downy Mildew Characterized by tangled downy growth on the host surface

22. Powdery mildew consists of enormous number of spores

23. Fusion between two sexual cell is known as Karyogamy

24. Puccinia graminis comes under order Helotiales

25. Pure culture technique discovered by Oscar Brefeld

26. Technic acid present in gram positive bacteria

27. Transformation first time reported by Ledebberg and Tatum

28. Phytoplasma first time discovered by Neeldham

29. Bavistin is the broad-spectrum fungicide

30. Captan is the Contact Fungicide

31. Bengal famine reported in the year

32. Lignin attached to the many hosts

33. Endobiotic growing inside the cell wall

34. Toxins alternaria alternata

35. Tab toxin Phascolomys syringae ptabaci

36. Phaselotoxin Phascolomyces syringae ptabaci

37. Ten toxin Pseudomonas syringae ptabaci

38. Interbiotic Glucosidase Polymer

39. Polycentric Thallics converted in to

40. Holocarpic Appressoria

Q.No	Column A	Column B
31	Swollen structure	A Severe reproductive structure
32	Lignin	B Attached to the many hosts
33	Endobiotic	C Growing inside the cell wall
34	Toxins	D Alternaria alternata
35	Tab toxin	E Phascolomyces syringae ptabaci
36	Phaselotoxin	F Pseudomonas syringae ptabaci
37	Ten toxin	G Low concentration
38	Interbiotic	H Glucosidase Polymer
39	Polycentric	I Thallics converted in to
40	Holocarpic	J Appressoria

Q.11. Match column A with column B for correct answer.

10 x 0.5 mark = 05 Marks

24  
25  
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See next page for Part-B QP

I  
II  
III  
IV  
V  
VI  
VII  
VIII  
IX  
X

- Set A PAT-102(2+1): Fundamentals of Plant Pathology
8. Black tip of mango causes due to ...  
a. Folirine b. Chlorine c. Ozone d. Sulphur di oxide
9. Energy growth of parasite available for interaction of the host at the surface is known as  
a. Primary inoculum b. Secondary inoculum
10. Red rust of algae is caused by .....  
c. Choculium potentital d. None of these
11. About crop losses estimated by plant disease.  
a. 26% b. 46% c. 56% d. 66%
12. Iris famine reported in the year  
a. 1845 b. 1945 c. 1875 d. 1895
13. Bengal famine reported in the year  
a. 1943 b. 1955 c. 1965 d. 1975
14. Varksha Ayurveda a book written by .....  
a. Smith b. Beijerinck c. Alexander Fleming d. Surpal
15. .... observed the microorganism under microscope  
a) Anton Von Leeuwenhook (b) Smith  
(c) Beijerinck (d) None of These
16. Bengal famine reported in the year  
a) 1943 (b) 1950 (c) 1955 (d) None of These
17. T.J. Burrill first time reported plant disease caused by .....  
(a) 1943 (b) 1950 (c) 1955 (d) None of These
18. Use of cotton plug for contamination free culturing of Microorganism  
(a) Fungi (b) Bacteria (c) Nemtode (d) None of These
19. Who is credited with development of simple lens system for the first time  
(a) Schroeffer and Von dutch (b) Needham  
(c) K.F. Smith (d) None of these
20. .... is the ability of pathogen to cause the disease under given set of environmental condition  
(c) J.E. Barnard (1919) (d) Anton von Leeuwenhook (1632-1723)
- (a) Roger Bacon (1214-1924) (b) Zacharia and Jansen (1590)  
(c) J. E. Barnard (1919) (d) Anton von Leeuwenhook (1632-1723)
- (a) Immunity (b) Resistance (c) Pathogenicity (d) None of these