



## **BRAINWARE UNIVERSITY**

Term End Examination 2023-2024

Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023

Course Name – Fundamentals of Plant Pathology

Course Code - CC-BAG271(T)

( Semester II )

Full Marks: 50

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

- Choose the correct alternative from the following:
- (i) State the name of the causal oraganism of Wheat black Rust is
  - a) Phytophthora infestans

b) Puccinia graminis

c) Albugo candida

- d) Fusarium solani
- (ii) State the origin of the term 'Phyton' in phytopathology.
  - a) Indian

b) Latin

c) Greek

- d) French
- (iii) Select the correct option for the name of the causal organism of Coffee rust.
  - a) Rhizoctonia solani

b) Hemileia vastatrix

c) Clavibacter michiganensis

- d) Xanthomonas campestries
- (iv) Select the correct option: Dithane Z-78 belongs to...
  - a) Oraganomercurials

b) Dithiocarabamet

c) Heterocyclic N-compound

- d) Elemental Sulphur
- (v) Choose the correct option: Insect-resistant cotton plants have been successfully genetically engineered by inserting a gene from a/an
  - a) Virus c) Insect

b) Bacteria

d) plant

- (vi) Name the smallest known viroid...
  - a) Potato spindle tuber viroid

a) i otato spinale tubel virolo

- b) Citrus exocortis
- c) Avocado sunblotch Viroid
- d) Coconut cadang cadang viroid
- (vii) What is the protein coat of virus is known as
  - a) Capsomere

b) Capillatum

c) Capsid

d) Coat protein

	viroids primarily from diseased to healthy plan	its
(viii) Name the vector group which spread the	VIFOIDS Prints	
a) Aphids	b) Thrips d) None of these	
c) Mealy bugs		
(ix) Select the correct option: Bacteria belong	b) Prokaryotes	
a) Eukaryotes	A Name of these	
c) Both Prokaryotes & Eukaryotes	d) Note of the plant parasitic nematode?	
<ul> <li>c) Both Prokaryotes &amp; Eukaryotes</li> <li>(x) Identify the name of the first scientist wh</li> </ul>	io described the plant p	
a) P.A.Michaeli		
	d) M.Berkeley	
c) T.J. Needham (xi) Identify the term reffered to the fungi the	at lacks the crosswall, septe	
a) Holocarpic	b) cochecy and	
·	d) Eucarpic	
(xii) Infer the correct option for Rhizomorph f	formation, which is the characteristic feature of	
a) Armillaria mellea	b) Kuizoctoma solam	
) v	d) Claviceps purpurea	
c) Verticilium alboatrum (xiii) Infer the correct option for Dolipore sept	um, which is the characteristic feature of	
a) Ascomycotina	b) Basidiomycotina	
c) Dauteromycotina	d) Oomycotina	
(xiv) Show the correct answer for Zygospore,	which is formed after conjugation of	
a) Two similar gametangia only	b) Two gametangia	
c) Oogonium & Antheridium	d) Two dissimilar gametangia only	
(xv) Choose the correct scientific name of the		
	b) Rotylenchulus reniformis	
a) Tylenchulus semipenetrans     c) Globodera rostochinensis	d) Heterodera avanae	
(xvi) Choose the name of the Viruses that infe		
a) Viroid	<ul><li>b) Bacteriophage</li><li>d) Mycovirus</li></ul>	
c) Cyanophage		
(xvii) Choose the type of particle that can be f		
a) Single particle	b) Paired or twin particles	
c) Filamentous ssRNA molecules	d) dsRNA molecules	
(xviii) Identify the active principle of Bordeaux	mixture	
a) Copper sulphate	b) Calcium sulphate	
c) Copper hydroxide	d) Calcium hydroxide	
(xix) Give examples of the name of the fungion	ide that shows both the apoplastic and	
symplastic movement within a plant.		
a) Captan	b) Propiconazole	
c) Fosetyl-Al	d) Carboxin	
(xx) Interpret the technique used to produce	virus free plant stock.	
a) Protoplast fusion	b) Thermotherapy	
c) Meristem-tip culture	d) Cross-protection	
	a, cross protection	
	Group-B	
(a)	1860 1 September 1860 1 September 18	2.5 x
(Short Answer Type Questions)		10=25
		12.4
2. List any five Indian Phytopathologists having	ng notable contributions	(2.5)
		(=.5)

plant diseases? How are fungicides and antibiotics formulated for application in Plant	(2.5)
Pathology?	
4. Interpret the importance of Plant Pathology.	(2.5)
5. Name some of the plant diseases caused by nematodes.	
6. Compare between various types of fungal septation with illustrations.	
7. What is formulation?	
8. Explain the definition of Pellet?	(2.5) (2.5)
9. Identify the full form of ICTV? Name the modern taxonomic system in Virus.	(2.5)
10. Explain the definition of the endoparasitic nematode and give few examples.	(2.5)
11. Interpret the mode of action of benzene compound with suitable examples.	(2.5)
OR	,,
Explain the antifungal antibiotics with suitable examples.	(2.5)
Group-C	
(Long Answer Type Questions)	5 x 1=5
12. Indicate distinguishing characteristics of Mollicutes. Cite few examples caused by them.	(5)
OR	
Compare between monodelphic and Didelphic reproductive systems in nematode with a labelled diagram.	(5)
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