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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023/B.Sc.(Ag)-Hons-2024

Course Name – Fundamentals of Plant Pathology

Course Code - CC-BAG271(T)

(Semester II)

Full Marks: 50 Time: 2:0 Hours

[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) In which year was the Irish Famine first reported? b) 1934 a) 1845 d) 1943 c) 1876 (ii) What is the origin of the term Pathology? b) Latin a) Indian d) French c) Greek (iii) Who is the father of Indian Plant Pathology? b) K.C Mehta a) B.B Mundkur d) M.C Srinivasan c) E.J Butler (iv) Which pathogen was partially responsible for Bengal Famine?
 - a) Helminthosporium oryzae b) Fusarium solani
 - c) Puccinia graminis
 d) Phytophthora infestans
- (v) What are the three components of the disease triangle?a) Susceptible host, virulent pathogen andb) Resi
 - favourable environment
- b) Resistant host, avirulent pathogen and unfavourable environment
- c) Host, pathogen and temperature d) Host, pathogen and humidity
- (vi) Primary inoculum of Sclerotium rolfsii overwinters/oversummers in which of these following?
 - a) Root

b) Infected crop debris

c) Soil

- d) Both infected crop debris and soil
- (vii) Infer the phenomenon that is denoted by hypertrophy.

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	a) Increase in no. of cell	b) Increase in size of cell
	c) Tumor formation	d) Rotting
viii)	Cadang cadang disease is caused by which patho	gen?
	a) Viroid	b) Virus
	c) Phytoplasma	d) MLO
(ix)	Which of these produces haustoria?	
	a) By fungi parasitizing animal tissues	b) By hypha of obligate parasite
	c) Artificial cultures	d) After the hypha become intercellula
(x)	Choose the right option: Striga is a	•
	a) Partial stem parasite	b) Partial root parasite
	c) Total stem parasite	d) Total root parasite
(xi)	In which of the following plant diseases, domestic	
	a) Rice blast	b) Red rot of sugarcane
,	c) Late Blight of potato	d) Wart of potato
(XII)	Infer the correct option: Dithane Z-78 belongs to	
	a) Oraganomercurials	b) Dithiocarbamates
.	c) Heterocyclic N-compound	d) Elemental Sulphur
(XIII	Transformation is the process of multiplication fo	
	a) Bacteria	b) Fungi d) Phytomonas
(vivi	c) Bacteriophage) Infer the correct answer: Which one is an organo	•
(XIV		
	a) Cerasan	b) Bavistin d) Zineb
(vv)	c) Captan The cell wall of Oomycetes composed of which o	
(^v)		b) Peptidoglycan
	a) Chitin c) Lipoprotein	d) Cellulose
(xvi	Choose the correct option: Insect-resistant cotton	•
(2.00	genetically engineered by inserting a gene from a	
	a) Virus	b) Bacteria
	c) Insect	d) plant
xvii) Infer the correct answer: Which fungicide is spec	ific towards Oomycetes fungi?
	a) Vitavax	b) Carbendazim
	c) Metalaxyl	d) Plantvax
xvii) Show the correct answer: Which class of bacteria	has Streptomyces been categorized
	into?	
	a) Proteobacteria	b) Firmibacteria
	c) Thallobacteria	d) Mollicutes
(xix	Infer the correct answer: What is the term used f	for pitcher shaped ascocarp?
	a) Perithecium	b) Cleistothecium
	c) Apothecium	d) Ascostroma
(xx)	Infer the correct answer: Name an antifungul ant	tibiotic.
	a) Griseofulvin	b) Blasticidin
	c) Kasugamycin	d) All of these

Group-B

(Short Answer Type Questions)

2.5 x

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	Assess the structure of a typical bacterial cell.	(5)
	OR	
	12. Assess the various kinds of hyphal modifications found in fungi with suitable examples.	(5)
	(Long Answer Type Questions)	5 x 1=5
Group-C		
	Interpret the different methods of application of fungicides with examples.	(2.0)
	OR	(2.5)
	11. Explain the mode of action of copper or sulphur fungicides along with suitable examples.	(2.5)
	10. Describe the characteristics of virus.	(2.5)
	9. Describe different elements of disease tetrahedron.	(2.5)
	8. Illustrate the four types of ascocarp.	(2.5)
	7. Infer the concept of parasexuality in fungi.	(2.5)
	and the little was a principles of plant disease management	(2.5)
		(2.5)
	 Compare Settlement S	(2.5)
	2. Compare between Virus and Viroid.	(2.5)
	ye	(2.5)