Government Degree College, Baramulla (Autonomous)

Term End External Examination 4th Semester (Session- July 2024)											
<u>Subject: Botany</u> Course No and Title: BOTC2422M/Mycology and Phytopathology											
Time: 2.15 hoursMax Marks:100Min. Marks:40Section A: Objective Type Questions											
Q1. Ch	1005	e the appropr		<u> </u>	se Question		x1.5=12)				
i.	The compounds synthesized by plants in response to microbial attack and physical injuries are called										
	A	Endotoxins			B	Phytoalexin	ns				
	С	Exotoxins			D	Aminoglyc	osides				
ii.		hen a pathogen establishes itself in the host plant, the condition is own as									
	A	Infection			B	Infestation					
	С	Colonization			D	Both A & H	3				
iii.	Dai	mping off disease is primarily caused by									
	A	Rhizoctonia			B	Pythium					
	С	Botrytis			D	All of the a	bove				
iv.		hich of the following fertilizers predispose the paddy plants to ast infection									
	A	Nitrogenous	fertilize	ers	B	Potassic manures	and	phosphatic			
	С	Organic manures			D	None of the	e above				
v.	Cit	Citrus canker disease is caused by									
	Α	Viral pathogen				Fungal pathogen					
	C Bacterial pathogen				D	Algal pathogen					
vi.	Agi	Agrobacterium tumefaciens cause									
	A Fire blight of apples				B	Root knot disease					
	C Apple scab				D	Crown gall disease					
vii.	Pla	Plant quarantine regulations are enforced by									
	A A country					A state					
	С	A state	or c	ountry	D	None of the	e above				
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		through legis	lation							
vii	i. Wh	nich of the follo	wing is used	as t	niversal anti-mitotic agent					
	Α		C		Penicillin					
	С	TMV			Puccinia					
	U	11,1,		Ľ	1 0000000					
SECTION-B: DESCRIPTIVE TYPE QUESTIONS (Short Type)										
Q2: Answer all the Questions (8 x 4 = 32)										
i.	Defi	ne parasitism a	nd pathogenic	city.						
ii.	Define infection and colonization.									
•••	i. What is meant by inoculum.									
m.	wha	t is meant by ii	noculum.							
iv	Write short note on mode of spread of Alternaria solani									
1.	Write short note on mode of spread of <i>Alternaria solani</i> .									
v.	Give the fundamental concept of disease triangle.									
			1		C					
vi.	Enlist the symptoms of Tobacco Mosaic Virus.									
••										
VII.	Name four diseases controlled by plant quarantine.									
viii	Name various physical methods of plant disease control.									
• •	Tune various physical methods of plant disease control.									
SE	СТІО	N – C: DESCRI	PTIVE TYPE	QU	ESTIONS (Medium Type)					
Ansv	ver all	the questions:			(4 x 7=28)					
Q3.	Discuss the role of temperature and humidity in predisposing plant									
	disea	ises.								
				OR						
	Writ	e a short note c	on Phytoalexir	ıs.						
Q4.	Wha	t are the sympt	oms and contr	rol	measures of paddy blast?					
	OR									
	Briefly describe the etiology and control measures of late blight of potato.									
	pota	.0.								

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 $\mathbf{Q5.}$ Describe symptoms and control measures of citrus canker disease.

OR

Explain symptoms and control measures of fire blight of apples.

Q6. Explain the general principles of plant quarantine.

OR

Give a brief account of integrated disease management.

SECTION – D: DESCRIPTIVE TYPE QUESTIONS (Long Type) Answer any two of the following: (2 x 14=28)

- Q7. Discuss the enzymes and toxins in relation to plant diseases.
- Q8. Describe in detail the symptoms, etiology and control of *Apple scab*.
- Q9. What are root knot infections? Describe the symptoms and control measures of root knot disease.
- Q10. Briefly describe the chemical and biological methods of plant disease control.