

## GIET UNIVERSITY, GUNUPUR – 765022

RS19BSCAG599

			KS19BSCAG595
	Registration No:		
Total Numb	er of Pages: 2  2 <sup>nd</sup> SEMESTER RE	AR-2018 EGULAR EXAMINATI undamentals of Plant Pa PPT-121	B.Sc (Ag) IONS, SEPT/OCT 2019-20 athology
Tin	ne: 2 Hours	111121	Maximum: 50 Marks
	(,	Answer all questions of Sec	etion – A)
Q.1.R	ead the statements and state v	whether True or False.	10×0.5=5
a.	The cause of great Bengal fa	amine in the year1943 wa	as due to Blast disease of rice.
b.	Pathogenesis is the ability of the pathogen to cause disease.		
c.	A Virus particle is made up		
d.	Peptidoglycans are found in		
e.	1 00	0 1	either toxic or growth inhibitory for
	bacteria.	8	Ş
f.	The major component of fur	ngal cell is Cellulose	
g.	• •	•	nce of nucleic acids in viroid.
h.	Bacteria reproduce mostly b		
i.	Trans-ovarian transmission	-	tent viruses
j.	Phytoplsma are sensitive to	-	
J.	Thytopisma are sensitive to	torrae ferme group or and	
Q.2 C	hoose the correct answer from	n given choices	$10 \times 0.5 = 5$
ii. A c	<ul><li>a) Pycnidium</li><li>b) Peritheciu</li><li>cup shaped fruiting body of ru</li><li>a) Aecium</li><li>b) Pycnidium</li></ul>	m c) Cleistotheci st fungus known as n c) Acervulus d) Apot	
	ne ooze test in plants is a meth		
	a) Fungi b) Bacteria irregular pattern or indistinc	c) Virus d) Algae t light and dark areas	e
1V) AI	a) Mosaic b) Mottle	c) Necrotic d) Molt	
v) One	e flagellum at each pole of Ba	,	
,			hitrichus d) Peritrichus
vi)The	e first plant virus disease to be		
			acco mosaic virus d) Peach leaf curl virus
,	e relationship of dependency	C	
· · · · · · · · · · · · · · · · · · ·	Obligate parasite b) Bicame the mycotoxin produced	otrophs iii) Parasitism	iv) Propagules
	· · · · · · · · · · · · · · · · · · ·	in c) Victorin d) Aflat	
,	x factor in bacteria in is know		
*	Episome b) Chromoso		d) Pilus
x) The	e sexual stage in the life cycle	of a fungus is called	
a) '	Teleomorph b) Anamorp	h c) Autoecius d) Heter	roecius



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[5]

## Q.3. Match column B with appropriate answer from column A

A	В
i. Late blight of potato	1.Blitox
ii. Bacterial blight of rice	2.Biocontrol agent
iii. Systemic fungicide	3.Autoiceous rust
iv. Copper fungicide	4.Irrish famine
v. W M Stanley	5.Vitavax
vi. Millardet	6.Xanthomonas oryzae pv. oryzae
vii. Trichoderma harzianum	7.Sulphur fungicide
viii. Melampsora lini	8.Dithane z-78
ix. Powdery mildew	9.Crystallisation TMV particles
x. Dithiocarbamate fungicide	10.Bordeaux mixture

Q.4. I	Fill in the blank spaces with suitable answer $10\times0.5=5$
a.	Basal body of flagella is anchored in the of bacterial cell.
b.	Virulence of <i>Pseudomonas solanacearum</i> causing wilt disease in solanaceous crop is due to its
c.	The cell wall of <i>Lactobacillus</i> is rigid due to presence of greater amount of
d.	Sulphur bacteria having chlorophyll mostly used either H <sub>2</sub> S/S/NH <sub>3</sub> as electron source are grouped under
e.	Sporangiospores and conidia are formed in group of bacteria.
f.	The process of measuring bacterial cells with the help of calibrated slides and microscope is called as
g.	Viruses that attack fungus are called as
ĥ.	The DNA fragment for transformation is acquired from
i.	is regarded as Father of plant pathology.
j.	Nucleic Acids in virus are protected from unfavorable extra cellular environment by
	<u>SECTION – B</u>
	(Attempt any five questions. Each question carries equal marks) $5x6=30$

- Q. 5. State the methods and describe the mechanism of sexual reproduction in fungi.
- Q. 6. Discuss in brief the chemical composition, shape and properties of plant viruses used to differentiate from other microorganisms.
- Q.7. State the methods of genetic transformation in bacteria and describe in detail the mechanism of transduction.
- Q. 8. Classify bacteria on the basis of morphology and draw a diagram of typical bacterial cell and label it.
- Q.9. Enlist the methods of plant disease management and describe mechanism biological control.
- Q.10. Describe insect transmission of viruses with suitable examples.