The Open University of Sri Lanka B.Sc./B.Ed Degree Programme-Level 03-2008/2009 BTU 1201/BTE 3201 – Plant Diversity Assessment Test I



Duration – One (01) hour		Reg.No
Date:	31st January 2009	Time: 1.30 p.m 2.30 p.m.
Answer	all questions on this paper itself.	
There are	e three (03) questions and four (04) pa	ges in this question paper.
		statements. Indicate the true statement by writing "F" in the space given in front of each statement.
i.	Gas vacuoles in Cyanobacteria are n	ot true vacuoles bound by tonoplast. ()
ii.	The last stage of the viral replication ()	cycle is the assembly of the viral components.
iii.	So far teichoic acid has been recorde	ed only in gram negative bacteria. ()
iv.	Rhizomorphs are mostly found in th	e members of Basidiomycetes. ()
v.	Fungal hyphae is not a part of the ve	getative phase of fungi. ()
vi.	The binomial system of nomenclature	re was proposed by Whittaker in 1969. ()
vii.	The antibiotic Cephalosporin blocks ()	the peptidoglycan synthesis in bacterial wall.
viii.	Plasmogamy, karyogamy and mitos ()	s are the stages of sexual reproduction in fungi.
ix.	Cystopus produces club-shaped spor	rangiophores and conidia in chains. ()
х.	Absidia produces sporangiophores a ()	s groups along the stolons opposite the rhizoids.
xi.	The sexual spores of Ascomycotina	
xii.	The vegetative body of Myxomycot	

Turnip yellow mosaic virus shows an icosahedral symmetry. (.....)

xiii.

	XIV.	Asci are produced in definite fruit bodies in all members of Ascomycetes. ()	
	XV.	Pycnidia are a type of asexual fruit bodies produced by fungi. ()	
	xvi.	The photosynthetic pigments of cyanobacteria are contained in well organized Chloroplasts. ()	
	xvii.	Helminthosporium is a plant parasitic fungus and causes rots in ripe fruits. ()	
	xviii.	Volveriella is an edible fungus cultivated in Sri Lanka. ()	
	xix.	The normal vegetative cells of Saccharomyces ludwigii are diploid. ()	
	XX.	Mycoplasma lack true cell walls. ()	
2)	Give on name.	ne (01) example for each of the following. Your answer should be a generic	
	i.	A cyanobacterium that reproduces by budding	
	ii.	A bacterium that converts ammonia into nitrites in soil	
	iii.	A well known bracket fungus that causes root diseases in many economic plants	
	iv.	A fungus often growing on stale bread and having grey coloured colony	
	v.	The fungus that causes the damping off diseases in seedlings	
	vi.	A bacterium that produces spores in sac-like sporangia	
	vii.	A commonly found stink-horn in Sri Lanka,	
	viii.	A bacterium that forms mutualistic associations with the roots of leguminous plants	
	ix.	A filamentous cyanobacterium with a basal heterocyst	
	х.	A parasitic fungus that causes white rust disease in Amaranthus plants	

- 3) Give three (3) basic differences between the following. No diagrams are required.
 - i. Endomycorrhizal and ectomycorrhizal association in fungi.

	Endomycorrhizal association	Ectomycorrhizal association
a)		
b)		· · · · · · · · · · · · · · · · · · ·
•		
7		
c)		
	ii. Sexual reproduction struct	ures of Aleurina and Eurotium.
	Aleurina	Eurotium
a)		
	······································	
b)		· · · · · · · · · · · · · · · · · · ·
		•••••
c)		,

iii. Gram positive and Gram negative cell walls of bacteria.

	Gram positive	Gram negative
a)	•••••	
	••••••	•••••
• •		
b)	•••••••••••••••••••••••••••••••••••••••	
		•••••••••••••••••••••••••••••••••••••••
c)		
÷.		
	•	
	iv. Primary and secondary my	celia of Agaricus.
		· · · · · · · · · · · · · · · · · · ·
	Primary mycelia of Agaricus	Secondary mycelia of Agaricus
a)		
		• •
)	•••••••••••••••••••••••••••••••••••••••	
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:)		
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