2024

(FYUGP)

(2nd Semester)

BOTANY

(Minor)

Paper Code : BCC/M-02

(Mycology and Phytopathology)

Full Marks: 75

Pass Marks: 40%

Time: 3 hours

(PART : B-DESCRIPTIVE)

(Marks : 50)

The figures in the margin indicate full marks for the questions

UNIT-I

 (a) Explain the thallus organization of fungi as well as its mode of nutrition. 5+5=10

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(Turn Over)

Or

Write short notes on the following :

5+5=10

- (i) Nature of associations of algal and fungal partners
- (ii) Mycorrhizae and its significance

UNIT-II

Discuss in detail the life cycle of 10 phytophthora.

Or

- Write short notes on the following: 5+5=10
 - (i) Characters of zygomycota
 - (ii) Rhizopus

UNIT-III

Give a detailed note with appropriate diagrams in regard to the life cycle of 10 Saccharomyces.

Or

- Write short notes on the following: 5+5=10
 - (i) Characters of ascomycota
 - (ii) Heterokaryosis

UNIT-IV

are secondary metabolites? Explain the role of fungal species in secondary metabolites. Add a note on biofertilizers. 2+4+4=10

Or

- Write short notes on the following: 5+5=10
 - (i) Application of fungi in baking
 - (ii) Fungi in biological control

UNIT-V

5. (a) Explain the plant disease of citrus canker in detail. 10

Or

- Write short notes on the following: 5+5=10
 - (i) Disease cycle
 - (ii) White rust of crucifers

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		Pape	r Co	ode :	BCC	/M-02
	(My	colog	уа	nd P	hytop	oathology)
		(PA	RT:	A	DBJEC	TIVE)
			(M	larks	: 25)
The fign	ures in the	marg	jin ii	ndica	te full	marks for the questions
			S	ECTIO	N—I	
			(M	arks	: 15)
	the correct			by p	utting	g a Tick (/) mark in 1×15=15
1. The	chemical	com	pone	ent o	f cell	wall in fungi is
(a)	cellulose		()		
(b)	lipid	t)			
(c)	chitin	()			
(d)	lysine	()			
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 are specialized cells produced by fungi from which a penetration peg emerges that pierces the 	Advanced forms of Chytridiomycetes attached to the substratum with the help of						
host tissues.	(a) rhizoids ()						
(a) Haustorium ()	(b) lichens ()						
(b) Stromata ()	(c) hyphae ()						
(c) Parenchyma ()	(d) None of the above ()						
(d) Appressorium ()	N (55) (=075550000)(275500000000000000000000000000000000000						
3. The fungal component of lichens is	Some members of fungal organisms live completely within the cells of the host called						
(a) mycology ()	(a) holocarpic ()						
(b) mycobiont ()	(b) eucarpic ()						
(c) phycology ()	(c) endobiotic ()						
(d) phycobiont ()	(d) epibiotic ()						
4. Which saprophytic fungi is also known a bread mold?	7. The name Saccharomyces is related to						
SOUND OF THE PERSON OF THE PER	(a) baking ()						
(a) Aspergillus ()	(b) brewing ()						
(b) Saccharomyces ()	NA NORTH CONTROL OF THE CONTROL OF T						
(c) Agaricus ()	(c) baking and brewing ()						
(d) Rhizopus ()	(d) None of the above ()						
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0.	The terminal binucleate cell of the hyphae elongate then bend itself to form structure known as								a hook-like			
	(a)	crozier	ţ)								
	(b)	trichogyne		t)							
	(c)	mycelium		()		i.					
	(d)	rhizomorph	P.	t)							
9.	The fruit bodies appear in circle in grassy lands, forming the 'fairy-ring' in											
	(a)	Mucor	()								
	(b)	Agaricus		()							
	(c)	Synchytriu	m		()						
	(d)	Yeast	ţ)								
10.	Sir	Alexander F	len	ing	(192	9) is	olate	d p	enic	llin	from	
		Penicillium						()			
	. 4	Penicillium						(1			
	(c)	Penicillium	, no	otatu	m	(
	(d)	None of th	ne i	abov	e	()					
	/-	M-02 /82 5										

11. Toxins produced known as	by ingested	i fungal species	arc
(a) mycotoxins	()		
(b) aflatoxins	()		
(c) cytotoxins	()		
(d) exotoxins	()		
12 is the ab	ility to caus	e disease.	
(a) Pathogen	()		
(b) Pathogen	icity (1	
(c) Inoculum	()		
(d) Inoculur	n potential	1)	
13. Those disease varying external part of the	nt of an or	e limited to a del gan, or only to	
(a) system	iic diseases	1 1	
(b) soil-bo	orne disease	rs ()	
(c) seed-	borne disea	ses ()	
(d) local	ised disease	s ()	
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14.	Citr	us canker	is a	_	_ dis	easc.			
	(a)	fungal	()				10000	
	(b)	viral	()					
	(c)	bacterial		()				
	(d)	None of	the a	abov	е	()		
15.	imi	regulator porting co not carr	ountr	ies	usc	to c	nsur	G min	
	(a)	quaran	tine		()			
	(b)	prevent	ion		ι)			
	(c)	disease	mat	nage	mer	nt	ι)	
	(d)	pathog	en m	ana	gen	ent	N.	.)	
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SECTION—II (Marks : 10)

Write on any five of the following in few sentences: 2×5=10

1. Prosenchyma

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2. Isogamy and anisogamy

3. Gametangial contact

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4. Fructicose lichen

5. Parasexuality

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6. Nanotechnology

7. Damping off disease

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