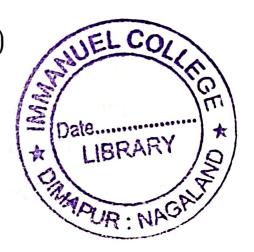
2025

(FYUGP)

(2nd Semester)

BOTANY (MINOR)

Paper: 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

1. Explain the cell wall structure and mode of nutrition in fungi. 5+5=10

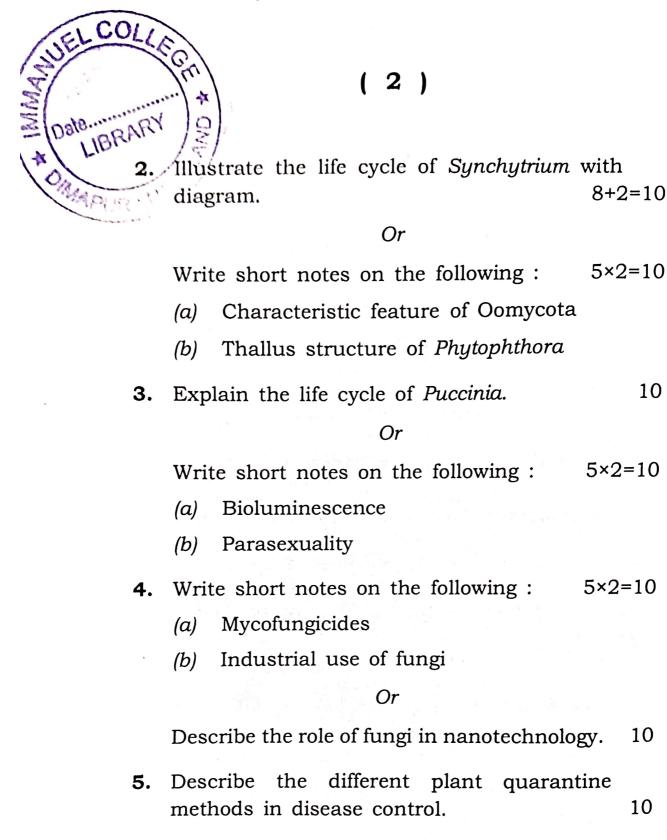
Or

Write short notes on the following: $5\times2=10$

- (a) Slime molds
- Asexual and sexual reproduction of (b) lichen

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(Turn Over)



Or

Write notes on the following:

 $5 \times 2 = 10$

- (a) Damping-off disease
- (b) General symptoms of plant diseases

* * *

2025 (FYUGP) (2nd Semester) **BOTANY** (MINOR) LIBRARY Paper: BCC/M-02 (Mycology and Phytopathology) (PART : A—OBJECTIVE) (Marks : 25) The figures in the margin indicate full marks for the questions Choose the correct answer by putting a Tick (1) mark in the brackets provided: 1×15=15 1. Fungi which can grow only on living host plant are obligate parasites obligate saprophytes facultative parasites

called

(a)

(b)

(c)

(d)

saprophytes

(2)	. (3)
2. Hartig nets are found in (a) endomycorrhiza (b) ectomycorrhiza (c) oomycetous fungi (d) endomycorrhiza (e) oomycetous fungi (f) endomycorrhiza (g) endomycorrhiza (h) endomycor	5. Mycelium of class Oomycetes is always (a) coenocytic () (b) septate ()
(c) comycetous fungi () (d) ascomycetous fungi ()	(c) cross-septa () (d) None of the above ()
3. Which of the following are sexual spores in fungi?	6. Pseudomycelium is formed in
(a) Arthrospores ()	(a) Synchytrium ()
(b) Ascospores ()	(b) Rhizopus ()
(c) Sporangiospores ()	(c) yeast ()
(d) Chlamydospores ()	(d) Pythium ()
4. A button-like structure which penetrates the host and draws nutrients is	7. Which type of fungicide is potentially most effective and economical?
(a) rhizoid ()	(a) Soil fumigant ()
(b) appressorium ()	(b) Paste ()
(c) rhizomorph ()	(c) Systematic fungicide ()
(d) haustoria ()	(d) Dust ()
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8. A fungus which requires only one single host for completion of its life cycle is called	11. Parasexuality was first discovered by					
(a) heteroecious ()	(a) Pontecorvo ()					
(b) autoecious ()	(b) Erikson ()					
(c) heterothallism ()	(c) de Bary ()					
(d) heterosporous ()	(d) Robert Koch ()					
9. Teliospore is a/an	12. Dictyospore is a spore with					
9. Teliospore is a/an (a) sexual spore (b) Delement (c)	(a) only horizontal septa ()					
(b) asexual spore ()	(b) only vertical septa ()					
(c) vegetative spore ()	(c) both horizontal and vertical septa ()					
(d) chlamydospore ()	(d) No septa ()					
10. Which fungal disease is commonly associated with 'damping-off' in seedlings?	13. Once the pathogen has established in an area, the steps taken to remove or destroy is known as					
(a) Powdery mildew	(a) exclusion ()					
(b) Rust ()	(b) eradication ()					
(c) Downy mildew	(c) protection ()					
(d) Rhizoctonia solani ()	(d) prevention ()					
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Control Control						

14.	Wha mos	at is the at fungi?	prin	nary	rep	oroduo	ctive	str	ucture	of	
	(a)	Ascus	()							
	(b)	Basidium		()	(\$	SEL	COL	TE CE		
	(c)	Spore	()		INMA,	Oste	BRAF	(X) (X)		
	(d)	Mycelium		()		OMMAS	7 11-		N. A.	
15. Which scientist is considered as the 'Father Phytopathology'?							of				
	(a)	Louis Pas	teur		() ,					
	(b) Antonie van Leeuwenhoek ()										
	(c)	Heinrich	Anto	n de	Baı	ry	()			
	(d)	Robert Ke	och		()					
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Answer/Write notes on any five of the following in short : $2\times5=10$

1. What is a dolipore septum?



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(9)

3. Differentiate between homothallism and heterothallism.



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(11)

5. Differentiate between telemorph and an amorph.



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(12)

6. Role of haustorium



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(13)

7. What is plasmodium?



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