1.

2022

Time - 3 hours

Full Marks - 60

Answer all groups as per instructions.

Figures in the right hand margin indicate marks.

Draw labelled diagrams wherever necessary.

GROUP - A

Ans	swer <u>all</u> questions and fill in the blanks as required. $[1 \times 8]$
(a)	Major constituent of fungal cell wall is
(b)	Fungus is called blue mold.
(c)	White rust disease is caused by
(d)	In higher fungi, male gametes are produced as small, tiny, uninucleate, nonmotile structure called
(e)	When two or more genetically different types of nuclei occur in the same cell, it is called
(f)	When minute scales are attached superficially to the substratum, the lichen is called
(g)	Give the botanical name of any slime mold.

(h) Name the most common disease symptoms exhibited by viral, bacterial, fungal infection.

GROUP - B

- Answer <u>any eight</u> of the following within two or three sentences each.
 - (a) What are fairy-rings?
 - (b) What are Mycoherbicides?
 - (c) What is quarantine?
 - (d) What is VAM?
 - (e) What do you mean by Bioluminescent fungi?
 - (f) What is haplo-diplobiontic life cycle? Give example.
 - (g) What is rhizomorph?
 - (h) What are exogenous spores?
 - (i) What are Mycotoxins?
 - (j) Predacious fungi

GROUP - C

- Write notes on <u>any eight</u> of the following within 75 words each.
 2 × 8
 - (a) Perithecium

	(0)	Clamp connection	
	(c)	Dikaryotisation in Basidiomycetes	
	(d)	Significance of Neurospora	
	(e)	Sexual Reproduction in Albugo	
	(f)	Fruiting bodies in slime molds	
	(g)	Etiology of citrus canker	
	(h)	Fungal biofertilizer	
	(i)	Internal structure of Lichen	
	(j)	Asexual reproduction in Rhizopus	
		GROUP - D	
		Answer any four questions within 500 words each.	
4.	Des	cribe the life cycle of Albugo.	[6
5.	Narrate the reproduction in Penicillium.		[6
6.	Describe various types of spores produced by <i>Puccinia graminis</i> tritici and their development.		
7.	Explain the sexual reproduction and structure of fruiting bodies of Lichen.		
8.	Dis	cuss the role of fungi in Biotechnology with suitable example	es. [6

- Describe the causal agent, disease cycle and control of early blight of potato.
- Give an account of classification and types of plasmodia in slime molds.