Seat No.	:	

P.T.O.

SM-109

September-2020

B.Sc., Sem.-VI

311 : Biotechnology / Env. Science (Biology of Fungi)

			(Diology of Fungi)			
Time: 2 Hours] [Max. Mar				: 50		
Instructions: (1) (2) (3) (4)			Draw figures wherever necessary. Show question number against each answer. Figures in right indicate marks. Answer any three out of initial eight main questions, Question 9 is			
			compulsory. Section – I			
`			features and various approaches used for fungal classification. chemistry and ultrastructure of fungal mycelia with diagram.	7		
`	, .		he general characteristics of Fungi. listinguishing characteristics of major classes of fungi.	7		
`	· ·		taxonomic status, reproduction and importance of <i>Agaricus bisporus</i> . eterokaryosis and explain events forming a heterkaryon in fungi.	7		
4. (A	_		nating systems among fungi. etailed note on parasexual cycle.	7		
`			nedical mycology? Explain in details any one mycosis type. nethods employed to diagnose fungal infections.	7		
`	B) Des					

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7.	(A)	List secondary metabolites produce by fungi and explain production and importance of any one in detail.	7				
	(B)	Explain potential of fungi as powerful tool for bioremediation.	7				
8.	(A)	Explain the role of fungi in bioremediation.					
	(B)	Describe methods for preservation of fungal cultures.	7				
		Section – II					
9.	Ansv	wer in Short : (Any Eight)	8				
	(1)	List three examples vegetative modifications in fungi.					
	(2)	Rhizomorph is used for food transport and colonization. (True / False)					
	(3)	Give two examples of fungi making Sporangiospores.					
	(4)	Name any two types of asexual reproduction in fungi.					
	(5)	Name the fungal enzymes hydrolysing starch.					
	(6)	Name the polymers found in fungal cell wall.					
	(7)	Mushroom growing on wood are known as					
	(8)	Symbiotic association between fungi and plants are known as					
	(9)	Define Parasexual cycle.					
	(10)	Give two examples of Ascomycete fungi.					
	(11)	What is homothallic structure in fungi?					
	(12)	Pleurotus ostreatus is rich in protein. (True / False)					
	(13)	Name any one fungus used as bioinsecticide.					
	(14)	What is Aflatoxin?					
	(15)	Define Ergotism.					
	(16)	Griseofulvin controls dermatophytosis. (True / False)					
	(17)	Give mechanism of action of Amphotericin-B.					
	(18)	Define Biodeterioration.					
	(19)	Give two important features of fungal culture media.					
	(20)	Which fungi are used in baking industries?					
	(21)	Primary metabolites are produced during phase.					
	(22)	How fungal inoculum can be propagated in the laboratory?					

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