## B.Sc. BOTANY THIRD SEMESTER (REPEAT) MYCOLOGY AND PLANT PATHOLOGY BSB-302

[USE OMR SHEET FOR OBJECTIVE PART]

Full Marks: 70 Duration: 3 hrs. Objective ] Marks: 20 Time: 30 mins. Choose the correct answer from the following:  $1 \times 20 = 20$ Coenocytic fungi are: b. One septad. Without septa a. With septac. Two septa Bacterial blight of Rice disease of plant is caused by: b. Xanthomonas citri a. Pseudomonas sp. c. Xanthomonas oryzae d. None of the above The fusion of nuclei in fungi is known as: b. Microgamy a. Progamy d. None of these c. Karyogamy Red rot of sugarcane is caused by: b. Colletotrichum falcatum a. Rhizopus sp. d. Cercospora sp. c. Albugo sp. Which of the following is not related to Necrosis? a. Curling of leaves b. Death of tissues d. Wilting of leaves c. Discoloration of leaves The roots like structures present in fungus to anchor with the substratum is known as: a. Stolons b. Rhizoids d. All of these c. Thallus Which property of the fungi separates them from plants? b. Have hyphad. None of these a. Have chlorophyll c. Lack of chlorophyll Which of the following is not a symptom of bacterial diseases in plants? a. Wilts b. Blightd. Mosaic The late blight disease of potato is most serious when the: b. Temperature is lowd. All of the above a. Temperature is high c. Soil pH is neutral

b. E.J. Butler

d. K.C. Mehata

10. Father of Indian pathology is:

a. R. S. Singh

c. S. P. Laxman

11.	The branches of conidiophores of <i>Penicillium</i> <b>a.</b> Paraphyses	b.	Sterigmata		
	c. Metulae	d.	None of the above		
12.	Thread like filaments which form the body of fungi are known as:				
	a. Rhizoids		Hyphae		
	c. Paraphyses	d.	Mycellium		
13.	The cell wall of yeast in composed of:				
	a. Cellulose	b.	Pectose		
	c. Chitin and mannan	d.	Pectin		
14	4. The number of ascospores formed in Saccharomyces cerevisiae is:				
14.	a. 8	<b>b</b> .			
	c. 4		16		
15.	Early blight of potato is caused by:				
	a. Aspergillus sp		Clavaria sp		
	c. Penicillium sp	d.	Alternaria sp		
16.	The fusion of nuclei in fungi is:				
	a. Karyogamy	b.	Progamy		
	c. Microgamy	d.	All of the above		
17.	The number of basidiodpores formed in Agaricus sp is:				
	a. 3	b.			
	c. 2	d.			
10	The second of the second		11		
18.	The symptom of red rot of sugarcane mostly				
	a. Leaf		Root All of these		
	c. Stem	a.	All of these		
19.	Aspergillus reproduces via:				
	a. Spores	b.	Conidia		
	c. Budding	d.	Fragmentation		
20.	Which of the following is a helical virus?				
	a. TMV	b.	T2 phage		
	c. Herpes virus		Pox virus		

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## (Descriptive)

Tin	Marks: 50			
[ Answer question no.1 & any four (4) from the rest ]				
1.	Describe briefly the nutrition and growth of fungi.	10		
2.	Describe briefly the economic importance of fungi.	10		
3.	Describe the general characteristics, reproductive structures of <i>Agaricus</i> with suitable diagram.	10		
4.	Write in brief the spore dispersal mechanisms in fungi.	10		
5.	Write a brief note on the symptoms of fungal and bacterial diseases in plants.	10		
6.	Write short notes on: a) Blast disease of rice b) TMV	5+5=10		
7.	Write in brief the life cycle of Saccharomyces cerevisae with suitable diagram. Write the economic importance of Saccharomyces.	2+8=10		
8.	Write the symptoms and management on late blight disease of potato and red rot of sugarcane.	5+5=10		

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