Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number		
Course	Semester	
Paper Code	Paper Title	
Type of Exam:	(Reg	gular/Back/Improvement)

Important Instruction for students:

- 1. Student should write objective and descriptive answer on plain white paper.
- 2. Give page number in each page starting from 1st page.
- **3.** After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. (2019MBA15) and upload to the Google classroom as attachment.
- 4. Exam timing from 10am 1pm (for morning shift).
- 5. Question Paper will be uploaded before 10 mins from the schedule time.
- **6.** Additional 20 mins time will be given for scanning and uploading the single PDF file.
- **7.** Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

REV-01 BMB

B.Sc. MICROBIOLOGY FIRST SEMESTER PHYCOLOGY & MYCOLOGY BMB – 103[REPEAT]

Duration : 3 hrs.

(<u>PART-A: Objective</u>)

Marks:20

Full Marks: 70

Choose the correct answer from the following: $1 \times 20 = 20$

1.	The cell wall ofmade up of silica.a.Polysiphoniac.Diatoms	b. d.	Chara Nostoc
2.	A characteristic feature of thallophyta isa. Presence of embryonic stagec. Both a) and b)	b. d.	Absence of embryonic stage Presence of vascular tissue
3.	Storage form of food in Red algae isa. Glycogenc. Floridean starch	b. d.	Laminarin Starch
4.	The Spermocarp formation in Coleochaete is duea. Fertilisationc. Before asexual reproduction	ring b. d.	Asexual reproduction After Fertilisation
5.	Who first coined the term algae?a. Linnaeusc. Chapman	b. d.	Fritsch Singh
6.	Pennales show a. Bilateral symmetry c. Only radial symmetry	b. d.	Radial symmetry Both a) and b)
7.	In Ectocarpus zoospores are produced in a. Globule c. Unilocular and plurilocular sporangia	b. d.	Nucule Perizonium
8.	In algae, starch are stored in a. Chromatophore c. Cell wall	b. d.	Pyrenoids rhizoids
9.	Fritsch classified algae intoclasses a. 7 c. 5	b. d.	9 11
10.	Algae used as biofertiliser a. Rhizobium c. Anabaena	b. d.	Nostoc Both b) and c)

Time : 20 min.

11.	Lichen show			
	a. Parasitic relation of fungi on algae	b.	Mycorrhizal relationship of algae & Fungi	
	c. Symbiosis of algae & Fungi	d.	Commensalism	
12.	Mycorrhiza is an association between roots of h example of	plant and fungus. It is an		
	a. Symbiosis	b.	Myremecophilly	
	c. Helotism	d.	Parasitism	
13. The algal partner of the lichen thallus is known as				
	a. Mycobiont	b.	Basidiobiont	
	c. Phycobiont	d.	Lichenobiont	
14.	Common bread mould is			
	a. Yeast	b.	Mucor	
	c. Bacteria	d.	Virus	
15.	Aflatoxin is produced by			
15.	a. Alternaria spp.	b.	Penicillium spp.	
	c. Aspergillus spp.	d.	None of these	
	e. hoperginus spp.	u.	None of these	
16.	used for alcohol production			
	a. Saccharomyces sereviceae	b.	Bacillus subtilis	
	c. None of these	d.	Penicillium chrysogenum	
17.	Central part of the lichen thallus is called			
	a. Algal layer	b.	Cortex	
	c. Medulla	d.	None of these	
10				
18.	Mucor belongs to order -	1.	7	
	a. Oomycetes c. Mucoraceae	b. d.	Zygomycetes Mucorales	
	c. Mucoraceae	u.	Wideorales	
19.	Sporangiospores of mucor is -			
	a. Haploid	b.	Diploid	
	c. Triploid	d.	Polyploid	
20. Genus Penicillium belong to the class				
_0.	a. Basidiomycetes	b.	Ascomycetes	
	c. Phycomycetes	d.	Deuteromycetes	
			5	

-- --- --

(<u>PART-B : Descriptive</u>)

Time : 2 hrs. 40 min.

Marks:50

[Answer question no.1 & any four (4) from the rest]

1.	Discuss general characteristics of an algae. Write a short note on Rhodophyceae.	5+5=10
2.	Write short notes on a. Vegetative reproduction in chara b. Structure of Volvox	5+5=10
3.	a. With a neat labelled diagram discuss the thallus structure of Polysiphonia.	5+5=10
	b. Describe briefly the development of Carpogonium in Polysiphonia	
4.	a. Draw a neat labelled diagram of Nostoc. Write a note on Reproduction in Nostoc.	3+5+2 =10
	b. Write a short note on Application of algae in agriculture.	
5.	Write short notes ona. General characteristics of fungi.b. Heterothallism in Fungi.	5+5=10
6.	a. What is mucor? Write the characteristics of mucor.	2+3+5 =10
	b. Explain the sexual reproduction of mucor with diagram.	-10
7.	a. What are lichens? What are the types of lichens?	2+3+5 =10
	b. Briefly describe the thallus structure of lichens with diagram.	-10
8.	a. Briefly discuss the economic importance of fungi.	5+2+3 =10
	b. What are mycotoxins? How can we minimise the risk from mycotoxins?	=10

= = *** = =