Time: 2-00 Hours

0308M140

Candidate's Seat No:

B.Sc. Sem.-6 Examination

CC - 311

Environmental Science

August 2021

[Max. Marks: 50

1	(A) Describe features and various approaches used for fungal classification.	
1.	(B) Discuss chemistry and ultrastructure of fungal mycelia with diagram.	7
2	and all all all all all all all all all al	7
2.	(B) Discuss distinguishing characteristics of major classes of fungi.	7
	(A) Describe taxonomic status, reproduction and importance of <i>Agaricus</i>	
3.		7
	(B) Define heterokaryosis and explain events forming a heterkaryon in fung	ji.
	(B) Define fieterokaryosis and explain events forming	7
4.	(A) Explain mating systems among fungi.	7
	(B) Write a detailed note on parasexual cycle.	7
5.	The state of the s	7
3.	(B) Explain methods employed to diagnose fungal infections.	7
6.	(A) Write symptoms, causes and control of Cutaneous mycosis.	7
	(B) Describe the causative agents, treatment and control of Systematic myc	osis
	in details.	7
7.	(A) List secondary metabolites produce by fungi and explain production an	d
	importance of any one in detail.	7
	(B) Explain potential of fungi as powerful tool for bioremediation.	7
8.	and the state of t	7
	(B) Describe methods for preservation of fungal cultures.	7
9.	Answer in short: (Any eight)	8
Q-1	Cell wall of fungi is made up of?	
A	Cellulose	
В	Hemicellulose	
С	Chitin	
D	Lignin	
Q-2	Zygomycota are also known as?	
A	Bread Moulds	
В	Fungi Imperfecti	
	- U i	

С	Sac Fungi		
D	Club fungi		
Q-3	Thread like filaments which form the plant body of fungi are		
A	Rhizoids		
В	Hypha		
С	Sclerotia		
D	Pellet		
Q-4	When a moist bread is kept exposed in air, it becomes mouldy and black because		
A	Spores are present in the water		
В	Spores are present in the air		
С	Spores are present on bread		
D	All of the above		
Q-5	Agaricus is a member of		
A	Ascomycota		
В	Basidiomycota		
С	Zygomycota		
D	Deuteromycota		
Q-6	Zygospore of Rhizopus/ Mucor germinates to form		
A	Mycelium		
В	Promycelium		
С	Hypha		
D	Germtube		
Q-7 The common yeast Schizosaccharomyces follows which of the following asexual reproduction methods?			
A	Binary Fission		
В	Budding		
С	Fragmentation		
D	Spore formation		
Q-8	No sexual stage is found in which class of fungi?		
A	Ascomycota		
В	Basidiomycota		
С	Zygomycota		

Б	D. towards
D	Deuteromycota
Q- 9	Special hyphal tips which absorb nutrients from the host in parasitic fungi
A	Rhizoids
В	Hypha
С	mycelium
D	Haustoria
Q-10	Ecological importance in terms of bio indicators of pollution is
A	Lichens
В	Mycorrhiza
С	Neurospora
D	None
Q-11	Number of ascospores present in one ascus after completion of miosis is?
A	2
В	4
С	6
D	8
Q-12 can be	Correct sequence for the sexual cycle of fungi starting from the haploid organism e?
l. Plas	mogamy
II. Kar	yogamy
III. Mi	osis
IV. Mi	tosis
A	I-II-III
В	i-ii-iV
С	IV-III-I
D	III-I-II
Q-13	Aplanospores are
A	Motile sporangiospores
В	Non-motile sporangiospores
С	Oidia
D	Chlamydospores
	P. T. 0

Q-14	Which scientist divided fungi in three divisions?
Α	Alexopoulus and Mims
В	Smith
С	G.C. Ainswoth
D	All of the above
Q-15	Heterokaryosis is a character noticed in
Α	Endomycorrhizal Fungi
В	Ectomycorrhizal Fungi
С	Plant roots
D	None of them
Q-16	The Endomycorrhizas are also known as
A	Intracellular mcorrhiza
В	Vesicular Arbuscular Mycorrhiza
С	Mat forming mycorrhiza
D	All of them
Q-17	Fungus diseases that occur on the nails, skin, hair are referred to as
A	Cutaneous mycoses
В	Subcutaneous mycoses
С	Superficial mycoses
D	Opportunistic mycoses
Q-18	Black piedra is a fungus infection of the
A	Skin
В	Nail
C	Hair
D	All of the above
Q-19	The systemic mycoses are caused mainly by
A	Air borne organisms
В	Soil borne organisms
С	Water borne organisms
D	Food borne organisms
Q-20	Who discovered Parasexuality among the following?
A	Smith
В	G.C. Ainswoth
С	Rothmaller

D

Pontecarvo and Roper