P. P. SAVANI UNIVERSITY

Fifth Semester of B.Sc. Examination December-2021 SSMB3030-Mycology-II

10.12.2021, Friday

Time: 12:00 p.m. to 03:00 p.m.

Maximum Marks: 60

Instructions:

- 1. The question paper comprises of two sections.
- 2. Section I and II must be attempted in separate answer sheets.
- 3. Make suitable assumptions and draw neat figures wherever required.
- 4. Use of scientific calculator is allowed.

Section-I (Total Marks - 30)

- Q.1 Short Questions [10]
 1.1 Objectives [05]
- **1.1a** Which among the following are asexual spores?
 - A Blastospores
 - B Ascospores
 - C Basidiospores
 - D Zygospores
- 1.1b Spores formed by sexual reproduction on a club-shaped structure are
 - A Ascospores
 - B Zygospores
 - C Basidiospores
 - D Oospores
- 1.1c Which among the following are spores formed by budding?
 - A Arthrospores
 - B Chlamydospores
 - C Blastospores
 - D Conidiospores
- 1.1d Ecological importance in terms of bio indicators of pollution is the attribute of
 - A Lichens
 - B Green algae
 - C Fungi
 - **D** Nematodes
- **1.1e** Sexual reproduction is not found in which class of fungi?
 - A Ascomycota
 - B Zygomycota
 - C Basidiomycota
 - D None of the above
- **1.1f** The mode of nutrition in which one organism obtains nutrition from other organisms is known as
 - A Symbiosis
 - B Autotrophic nutrition
 - C Saprophytic nutrition

	D Heterotrophic nutrition	
1.1	b and the first a primary patrogerite fully?	
1	A Coccidioides spp.	
	B Histoplasma spp.	
	C Blastomyces dermatitidis	
	D Phanerochyte crysosporium	
1.1	JP - 1 sport formed during asexual stage of Ascomycota is called?	
	A Conidia	
	B Ascospores	
	C Zygospores	
	D Basidia	
1.1i	and the following process does the male nucleus migrates through a	
	fertilization tube into the female gametangium?	
	A Gametic copulation	
	B Gamete-gametangial copulation	1
	C Gametangial copulation	1
1 11	D Somatic copulation	
1.1j	or bridge of bry cogen in full is dolle by	
	A Mycelium	
	B Hyphae	
	C Rhizoids	
	D Mucor	
1.2	Anguardo P. II. d. Garage	
1.2a	Answer the Following: (MCQ/Short Question/Fill in the Blanks)	[05]
1.2b	and term annothing switching.	
1.2c	What are the types of mycoses? Full form of MALDI-TOF MS.	
1.2d		
1.2e	Name a media that can assist sporulation of fungi What is mycelium?	
1.20	what is higherium?	
Q.2	Short Notes (Attempt any two)	
A	Classify fungus based on spore formation.	[06]
В	Why is S. Caravisian considered to the spore formation.	
C	Write down the govern of the state of the st	
	Write down the general features and morphological characters of fungi.	
Q.3	Explain in detail (Attempt any two)	
A	What are the putritional and madicial and ma	[14]
В	What are the nutritional and medicinal values of mushrooms?	
C	Give an overview of the central metabolic pathways of fungi with a diagram.	
-	Different fungal species respond to oxygen availability in diverse ways. What	
	are the types of Yeast and fungal metabolism based on responses to oxygen availability?	

Section-II (Total Marks - 30)

Q.1	Short Questions		[10
1.1	Objectives		[05
1.1a	What is the name of fungal infection in human beings?		
	A Mycosis		
	B Fungosis		
	C Mucorsis		
	D None of these		
1.1b	Penicillin is produced by		
	A Aspergillus		
	B Albugo		
	C Penicillium		
	D Spirulina		
1.1c	Culture media used for fungus is	. /	
	A Potato dextroseagar		
	B Luria Bertani agar		
	C Bennet agar		
	D None of these		
1.1d	How can we recognize the Aspergillosis in tissue?		
	A Meta granules		
	B Budding cells		
	C Pseudohyphae		
	D Septate hyphae		
1.1e	For 'ringworm' causative agent is		
	A Myeloma		
	B Histoplasma		
	C Epidermatophyton		
	D None of these		
1.1f	fungus is used in production of Alcohol		
	A Yeast		
	B Albugo		
	C Streptomyces		
	D Penicillium		
1.1g	One of fungi used as food from following is		
	A Agaricus		
	B Albugo		
	C Penicillium		
	D Aspergillus		
1.1h	Cryptococcal meningitis is caused by		
	A Cryptococcus indicus		
	B Cryptococcusneoformans		
	C Diplococcus		
	D Dimorphs	* 4-1	
1.1i	Coccidioides immitis is a dimorphic fungus i.e., it can exist as molds in s	oil and	

	spher	rule in tissues hence termed as		
	A	Diploid		
1	В	Diplococcus		
	C	Dimorphic		
	D	Polymorphic		
.1j	One o	of the common diseases caused by fungi is		
	A	Plague		
	В	Cholera		
	C	Typhoid		
	D	Aspergillosis		
	1.2	Answer the Following: (MCQ/Short Question/Fill in the Blanks)		[05]
	1.2a	What are antifungal agents?		
	1.2b	What is systemic mycosis?		
	1.2c	Give an example of Mycofungicides	1	
	1.2d	Name one fungi causing opportunistic mycosis.		
	1.2e	What is fungal metabolite?		
	Q.2	Short Notes (Attempt any two)		[06]
	A	Explain the process of sexual reproduction in fungus.		
	В	Role of Fungi in bread making		
	C	Describe the modes of nutrient transport in fungi.		
	Q.3	Explain in detail (Attempt any two)		[14]
	A	Give the applications of fungi in Biofertilizer and Enzyme.		
	В	What are the nutritional and medicinal values of mushrooms?		
	C	What is mycotoxin? Detail example of few mycotoxin.		