Name	



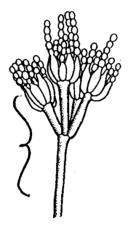
EXAM I February 19, 1993 MIC 321

<u>Direction</u>: All explanations, definitions, and descriptions should be presented in good English. This means complete sentences should be used except when lists or fill-in-the-blanks are required. Spelling of mycological terms should be accurate. Slight misspellings may be overlooked, but major misspellings will result in wrong answers.

(1 point per blank; 43 pts total).

1. Identifications of structures, their essential basic function and their taxanomic significance. In the blanks provided identify with no more than one or two mycological terms each structure (or structure indicated by arrow(s)), then with a short phrase describe its function (e.g. cytokinesis; asexual reproduction, meiosporangium, etc.) and finally its relevance to phylogeny (classification) at the rank(s) requested.

a.

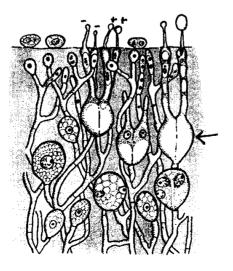


a. structure (as indicated by bracket)

b. function____

c. phylum____

b.



a. structure (as indicated by the arrow)

b. function _____

a shulum

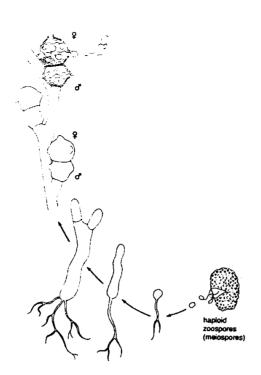
c. phylum_____

d. subphylum _____

e. class

f. order

c.



a. structure (as indicated by arrows)

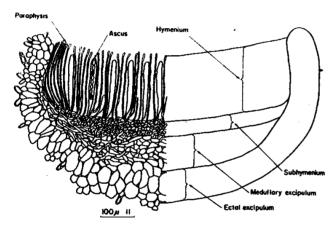
Name

b. function

c. subkingdom _____

d. phylum_____

d.



a. structure

b. function

c. subkingdom _____

d. class or form-class _____



e.



	(b)	
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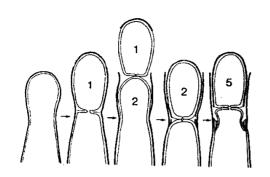
a. structure (as indicated by arrow)

b. function

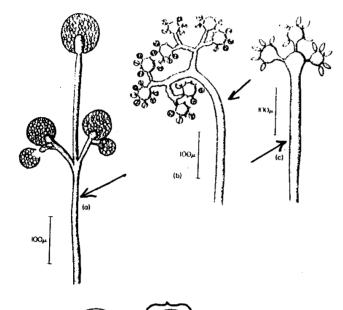
c. phylum_____

Name _____

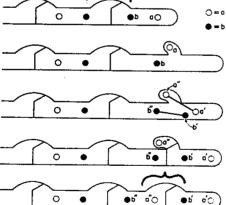
f.



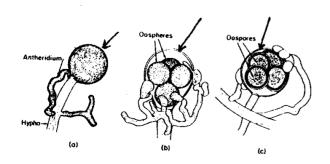
· g.



h.



i.



a.	structure (as indicated by
	horizontal arrows)
b.	function
c.	phylum
d.	class or form class

a.		structure	(as	indicated	by	arrows)
	•					

b.	function	
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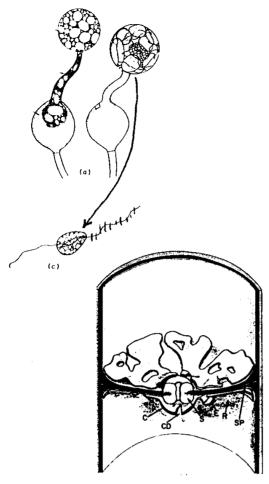
b.	function	•	
υ.	IUIICUOII		

a.	structures	(as	indicated	by	arrows

b.	function
υ.	Tuncuon

C	kingdom		

j.



a.	structure (as indicated by arrow)
b.	function
c.	kingdom
d.	phylum

k.	
	(000)

structure _____ a.

function b.

phylum C.

- 2. (15 pts) On the answer sheets provided, and in one or two well written paragraphs explain why R.H. Whittaker in his 1969 Science paper reasoned that at least some of the organisms known as fungi at the time were not plants and were deserving of inclusion in their own kingdom, the kingdom Fungi. (Make sure your answer to this question is not redundant with your answer to the next question).
- 3. (15 pts) On the answer sheets provided and again in a paragraph or two explain why most contemporary mycologists and evolutionary biologists, such as Lyne Margulis and Karlene Schwartz, consider most of the organisms previously classified as Phycomycetes to represent a heterogenous grouping of fungal-like protoctistan phyla.
- (15 pts) In certain Ascomycota the dikaryotic nuclear condition is perpetuated by a process that 4. leads directly to ascus formation. Using a series of diagrams with labels explain how this process occurs starting with the exchange of mating type nuclei between a female ascogonium and a male autheridium of a euascomycetous fungal species.
- 5. (12 pts @ 2 pts each) Define each term without diagrams and with a single sentence or a well constructed phrase.
 - a. enteroarthric conidium

Name	
	 _

- b. eucarpic
- c. polycentric
- d. teleomorph
- e. annelloconidium
- f. sporangiola