	erra College icrobiology	Fungus Exercise	Name Date	
Та	find the grabeite for this as	(20 points)	1 money and on Wale based lab	
To find the website for this assignment, look in the Bio. Sci. 4 menu under <u>Web-based lab</u> <u>assignments</u> , and then click on <u>Fungi – The fifth Kingdom</u> . Note – You must also click on (Complete list of online topics) when you reach the "All About Fungi" page. As you explore the fifth kingdom, find answers to the following set of questions:				
Chap 1 - Kingdoms, Classification and Biodiversity:				
1.		the evolution of three major do analysis of	omains of life was based on nucleotide	
2.	kingdoms, including Plant	ion included in this document, ae, Animalia, Protista (or Protoz idered to be fungi belong to wl	zoa), Chromista and Eumycota.	
3.	According to this documen	nt, a fungus (pleural fungi) car	be defined as:	
Chap 2b - Simple Fungi – Chytridiomycota, Hyphochytriomycota and Oomycota (pictures):				
4.	What color are the zoospophotographs shown?	res inside the zoosporangium	of <i>Saprolegnia</i> in the (400x)	
5.		oy number under Oomycota) le es) # and <i>Albugo</i> (asexua	ook most like our prepared slides of l sporangiospores) #	

Chap 3a - Eumycotan Fungi – The Mainstream:

6. The two major reasons given for the incredible success that fungi enjoy are fungal spores and fungal hyphae. Explain <u>briefly</u> why these structures are so important.

Spores permit...

Hyphae permit...

Also enjoy the pictures of spores and hyphae.

Ch	ap 3b - Phylum Zygomycota (Class Zygomycetes):		
7.	The term 'Zygos' is Greek for		
8.	Fungi often occur in both sexual (Teleomorphic) and asexual (Anamorphic) forms. Which of these is more likely to be encountered in the field (on moldy bread, fruit, horse dung, etc.)?		
9.	The scanning electron micrograph (SEM) of a sporangium shows that it contains hundreds of non-motile spores that are covered by a delicate outer membrane called a peridium (peri = around).		
10.	What is the genus name of the fungi that shoot their sporangiospores, like a canon, toward light?		
11.	Fungi that form arbuscular mycorrhizae or endomycorrhizae help plant roots absorb minerals, especially from the soil. In exchange, the fungi obtain sugars (the product of photosynthesis) from the plant.		
Ch	ap 4a - Phylum Dikaryomycota (Subphylum Ascomycotina) - Watch the animations:		
12.	Fungi in this phylum generally have septate hyphae with chitinous cell walls (although yeasts are unicellular). What feature of these fungi is used to classify them within the phylum <i>Dikaryomycota</i> ?		
13.	According to this document, fungi in the class <i>Ascomycetes</i> form structures called Ascomata that produce the asci containing sexual ascospores. Fungi in the genera <i>Penicillium</i> and <i>Aspergillus</i> produce asci within a ascomata. These same fungi form asexual conidiospores (conidia) that emerge from the open ends of special conidiogenous cells called (see animation).		
14.	Fungi identified as <i>Aspergillus flavus</i> produce a toxin called Aflatoxin. What type of damage does this toxin cause?		
Ch	ap 4b – Ascomycetes (many pictures):		
15.	What is the genus name of the fungi that cause peach leaf curl?		
16.	What is the genus name of the fungus with the poison arrow frog?		
17.	What is the greatest difference between the genera <i>Morchella</i> and <i>Verpa</i> with respect to their being <u>edible</u> ?		
18.	Soft brown rot on peaches, cherries, etc. is cause by fungi in the genus		
19.	Fungi in the genera <i>Penicillium</i> and <i>Aspergillus</i> belong to the order		
	OOK AT THE PICTURES IN THE REMAINING SECTIONS TO LEARN MORE ABOUT INGI.		