Benha university

Faculty of Science



Time: one hr.

Code:100 B

Botany Department

General Botany exam for 1st level students (May 2017)

Answer the following questions:

The 1 st question: Put $()$ or (X) :	(24 marks)			
1- Cyanobacteria are prokaryotic.	()		
2- Fucus thallus contains flagella.	()		
3- In tetracocci bacteria the cell divides in one plan	ie. ()		
4- Albugo is saprophytic organism.	()		
5- Flagella are composed of protein called flagellin	. ()		
6- Algae are photosynthetic organisms.	()		
7- Anaerobes include the bacteria which live in co	mplete absence of	OX	ygen	ı.()
8- Diatoms are motile by flagella.	()		
9- Virus are reproducing only within and living ce	ells. ()		
10- Virus that infects bacteria is mycophage.	()		
11- Deutromycetes lack sexual reproduction.	()		
12-Zygomycetes comprising fungi consisting of no	on-septate myceliu	um(()	
13- The stored food material in fungi is starch	()	
14- Pandorina is more advanced than Volvox.	()	
15- Sexual reproduction in ascomycetes produces e	endogenous ascos	oro	es.()
16-Rhizopus is a parasitic fungus.		()	
17- bacteria and fungi maintain soil fertility.		()	
18- Bacteria reproduce by binary fission.		()	
19- Kingdom Protista include eukaryotic organism	s.	()	
20- Most fungi are able to grow in high sugar and s	salt concentration.	()	
باقى الأسئلة بالخلف				

21- Virus has the ability to multiply outside the cell.	()
22- All bacteria have capsule.	()
23- Fungi are autotrophs.	()
24- Several antibiotics are isolated from bacteria and fungi.	()
The 2 nd question: Choose the correct answer: (24 marks)	<u>.</u>
1- Actinomycetes are (filamentous- unicellular) bacteria.	
2- In sarcina the division of cell is in (one- two-three) planes.	
3-Agaricus is a (saprophytic- parasitic) fungus.	
4- (Aerobes– Facultative aerobes – Anaerobes) are the groups of	f bacteria
which require free supply of oxygen for growth.	
5- Most of the (yeasts – algae – viruses) multiply vegetatively eit	ther by
budding or by fission.	
6- Viruses are obligate (extracellular- intacellular) parasites.	
7- Virus contains (both DNA and RNA together - DNA or RNA)).
8- Chlamydomonas is (filamentous- unicellular) algae.	
9- (Fucus- Nostoc- Spirogyra) are related to division phaeophyta	a.
10- <i>Pandorina</i> is (unicellular – colonial) alga.	
11- (Viruses- algae-fungi) can pass through bacterial filters.	
12- The cell walls of (Fucus - Diatoms- bacteria) are silicified a	and show
characteristics secondary structures.	
13- Yeasts are (Aerobes- Anaerobes).	
14- (A monotrichous – peritrichous – lophotrichous) bacterium p	oossesses a
single flagellum.	
15-The (capsid- envelope) is composed of many identical subuni	its called capsomeres.
16- (Plasmogamy – Karyogamy – Meiosis) consists in the fusion	ı of two
nuclei.	
17- (Sporangiospores – Conidiospores –Basidiospores) are produ	iced
exogenously on the outer surface of basidia.	

- 18- The filament of *Nostoc* is (branched unbranched).
- 19-Heterotrophs which live in association with other organisms called (saprophytes parasites symbionts).
- 20- The bacterial plasma membrane is composed of (cellulose peptidoglycan phospholipid).
- 21- Algae are (prokaryotes-eukaryotes).
- 22- The chloroplast of *Spirogyra* takes the form of (cup-spiral).
- 23-(Photosynthetic-Chemosynthetic) bacteria can synthesis carbohydrates from atmospheric Co₂ in the presence of sunlight.
- 24-In the end of (lytic cycle-lysogeny) the host cell bursts.

With my Best wishes

د صباح ابو المعاطى

Benha university

Faculty of Science



Time: one hr.

Code:100 B

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Botany Department

نموذج اجابة مادة نبات عام (١) لطلبة الساعات المعتمدة ٢٠١٧/٦/١٣

General Botany exam for 1st level students (May 2017)

Answer the following questions:

The 1 st question: Put $()$ or (X) :	(24 degree)
1- Cyanobacteria are prokaryotic.	$(\sqrt{})$
2- Fucus thallus contains flagella.	(X)
3- In tetracocci bacteria the cell divides in one plan	ne. (X)
4- Albugo is saprophytic organism.	(X)
5- Flagella are composed of protein called flagelling	n. $(\sqrt{\ })$
6- Algae are photosynthetic organisms.	$(\sqrt{})$
7- Anaerobes include the bacteria which live in co	omplete absence of oxygen($\sqrt{}$)
8- Diatoms are motile by flagella.	(X)
9- Virus are reproducing only within and living co	ells. $(\sqrt{\ })$
10- Virus that infects bacteria is mycophage.	(X)
11- Deutromycetes lack sexual reproduction.	$(\sqrt{})$
12- Zygomycetes comprising fungi consisting of	nonseptate mycelium($\sqrt{\ }$)
13- The stored food material in fungi is starch	(X)
14- <i>Pandorina</i> is more advanced than <i>Volvox</i> .	(X)
15- Sexual reproduction in ascomycetes produc	es endogenous ascospores. $()$
16- Rhizopus is a parasitic fungus.	(X)
17- Bacteria and fungi maintain soil fertility.	(√)
18- Bacteria reproduce by binary fission.	$(\sqrt{})$
19- Kingdom Monera include eukaryotic organi	isms. (X)

- 20-Most fungi are able to grow in high sugar and salt concentration. $(\sqrt{\ })$
- 21- Virus has the ability to multiply outside the cell. (X)
- 22- All bacteria have capsule. (X)
- 23- Fungi are autotrophs. (X)
- 24- Several antibiotics are isolated from bacteria and fungi. $(\sqrt{\ })$

The 2nd question: Choose the correct answer: (24 degree)

- 1- Actinomycetes are **filamentous** bacteria.
- 2- In sarcina the division of cell is in **three** planes.
- 3-Agaricus is a saprophytic fungus.
- 4- **Aerobes** are the groups of bacteria which require free supply of oxygen for growth.
- 5- Most of the **yeasts** multiply vegetatively either by budding or by fission.
- 6- Viruses are obligate **intacellular** parasites.
- 7- Virus contains **DNA or RNA**.
- 8- Chlamydomonas is unicellular alga.
- 9- *Fucus* is related to division phaeophyta.
- 10-Pandorina is colonial alga.
- 11- Viruses can pass through bacterial filters.
- 12- The cell walls of *Diatoms* are silicified and show characteristics secondary structures.
- 13- Yeasts are **Anaerobes**.
- 14- A monotrichous bacterium possesses a single flagellum.
- 15-The **capsid** is composed of many identical subunits called capsomeres.
- 16-Karyogamy consists in the fusion of two nuclei.
- 17- **Basidiospores** are produced exogenously on the outer surface of basidia.
- 18- The filament of *Nostoc* is **unbranched**.
- 19-Heterotrophs which live in association with other organisms called **symbionts**.

21- Algae are eukaryo	tes.
22- The chloroplast of	Spirogyra takes the form of cup .
23- Photosynthetic bac	cteria can synthesis carbohydrates from atmospheric
Co2 in the presence of	sunlight.
24-In the end of lytic c	ycle the host cell bursts.
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