

SIMPLE ORGANISMS UNIT TEST Review KEY!

BACTERIA:

What single factor will place an organism in the Monera Kingdom?

They are Prokaryotic – they have no nucleus or membrane bound organelles

What is the first bacteria on Earth to perform photosynthesis?

Blue-green bacteria (cyanobacteria)

Bacteria which have a sphere shape are classified as:

Cocci

Bacteria which have a rod shape are classified as:

Bacilli

Bacteria which have a spirial shape are classified as:

Spirilla

What is the structure which some bacteria use to protect themselves from harsh conditions or chemicals by causing it to become dormant?

Endospore

What is the process in which bacterium splits into two identical new bacteria?

Fission

Name 4 ways that bacteria can be helpful?

Foods like yogurt, pickles, sauerkraut, etc. require bacteria

Necessary for human digestion

Saprophytes help breakdown dead and decaying organisms

They are used in production of some vaccines

Name 3 ways bacteria can be harmful?

Cause disease

Spoil food

Bacterial blooms kill fish and other organisms

Bacteria Diagram

A. Cell Wall

B. Cell membrane

C. Ribosomes

D. DNA

E. Flagella/Flagellum

F. Capsule

VIRUSES:

Indicate yes or no

A virus is capable of:

 N Growth

 N Perform Respiration

 N Release Waste

 Y Reproduce (*in a host cell*)

Why do viruses infest other cells?

Viruses require a host cell to reproduce

Name 3 common diseases which are caused by viruses:

HIV/AIDS, measles, Mumps, rubella, chicken pox, HPV

Virus Diagram

Name the structures labeled:

A. Protein Coat

B. Genetic Material

C. Tail

D. Head

HIV – AIDS

Write the words indicated by each letter

Human

Immunodeficiency

Virus

Acquired

Immune

Deficiency

Syndrome

Can HIV be transmitted by sharing a water bottle?

NO

Can HIV be transmitted by sharing a tattoo needle?

YES!

PROTISTA

Name the three factors which will place an organism in the Protista Kingdom:

- 1. *Eukaryotic (Has a nucleus and membrane bound organelles)***
- 2. *Lives in a wet or moist environment***
- 3. *Is single or many celled (but in the multi-celled ones, the cells are not specialized)***

Name the structure used to pump out excess water from the cytoplasm of a protozoa

Contractile vacuole

Name the light sensitive area on a Euglena which causes it to move towards sunlight

Eyespot

Which protozoans use a pseudopod to move and also to capture food

Amoeba – (Sarcodine)

Amoeba Diagram:

Name the structure labeled:

- A. Vacuole (food)**
- B. Nucleus**
- C. Cytoplasm**
- D. Pseudopods**

Paramecium Diagram

Name the structure labeled:

- A. Cilia
- B. Gullet
- C. Oral Groove
- D. Nuclei (Macro/Micro)
- E. Cytoplasm
- F. Anal pore
- G. Contractile vacuole
- H. Pellicle

Euglena Diagram

Name the structure labeled:

- A. Flagella
- B. Eye spot
- C. Chloroplasts
- D. Nucleus
- E. Contractile Vacuole
- F. Cytoplasm

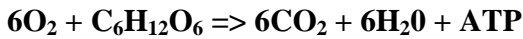
What is the key factor to the survival of algae is:

Water!

Write the equation for photosynthesis:



Write the equation for aerobic respiration:



What is the algae known to form as colonies, sheets, chains, or alone and perform photosynthesis?

Green Algae

What is the largest algae which use air bladders and holdfasts?

Brown Algae (Kelp)

What is the algae known as red tide that use two flagella to move and produce bioluminescence?

Dinoflagellates

What is the algae used in toothpaste, scouring agents, and highway paint?

Diatoms

What is the algae type used to produce Agar?

Red Algae

What is the algae type which is the base the food chain in water systems?

Green Algae

FUNGI

What characteristics define a member of the fungi kingdom?

Eukaryotic

Reproduce using spores (sexual and/or asexual)

Typically non-mobile

What are the thread like structures that produce enzymes and absorb nutrients in fungi?

Hyphae

Name three ways spores can be spread:

Wind

Water

Animal

What types of fungi produce spores on the tips of hyphae?

Zygote Fungi (sporangium)

Name three reasons fungi are important to humans?

Food source

Help plants absorb nutrients

Pesticides

Yeast help in making foods

Etc.

Name three reasons fungi are harmful to humans?

Kill crops

Parasitic/paracites

Spoil food

Describe the structure of a lichen?

A symbiotic relationship between algae and fungi

The algae makes food, the fungi absorbs nutrients and protects the algae

Name the structure labeled:

A. ***Ring***

B. ***Membrane***

C. ***Hyphae***

D. ***Cap***

E. ***Gills***

F. ***Stalk***