

**Assignment**

- 1a. Enumerate the major kingdoms of organisms.  
b. Discuss how bacteria are classified  
c. Define the following conditions  
i. Obligate aerobes  
ii. Obligate anaerobes  
iii. Facultative anaerobes

**Answer**

a.

- Animal kingdom (Animalia)
- Plant kingdom (plantae)
- Fungi kingdom
- Protista kingdom
- Monera kingdom

b.

Bacteria are classified in to five groups according to their basic shapes: spherical (cocci),rod(bacilli),spiral(spirilla),comma(vibrios) or corkscrew (spirochaetes). They can exist in single cells In pairs, chains or clusters.

c.

- *Obligate aerobes* ÷ they are organisms that cannot survive without oxygen.
- *Obligate anaerobes* ÷ these are just the opposite of obligate aerobes, they are organisms that are actually poisoned by oxygen meaning it can survive without oxygen.
- *Facultative anaerobes* ÷ simply means the organisms that can survive with both the present or absence of oxygen.