

## CLASSIFICATION 1

1.

- (a) Binomial nomenclature is a system of naming organisms by giving them two scientific names, the generic and the specific names.
- (b)
  - It makes it easier to identify an organism.
  - It is easier to describe an organism as it is based on characteristics of the organism
  - Large number of organisms are divided into smaller groups depending on characteristics
  - The whole world uses the same groupings, so everyone understands each other.

2. (a) Classification – placing of animals and plants into group according to their similarities in structure, physiological processes and ancestry.

(a) Taxonomy - scientific study of classification.

(b) Binomial nomenclature- system of naming using two names. The first part of the name represents the genus (generic name) while the second part refers to species or is the specific name.

3.

- (a)
  - Nucleus not organized
  - Organelles not bound by membrane
  - Absence of mitochondria

(b) Class insecta

4. Genus

5. Specific name
6. Species – A species is the smallest unit of individual organisms which has hereditary distinction from that of any other group and whose members naturally interbreed to produce fertile offspring
7. Taxonomy- Scientific study of classification
8. Taxon- Each group of classification