

CLASSIFICATION 1 -ANSWERS

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.
 - o Taxonomy - scientific study of classification.
 - o 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