

Biology (New Book) - 9th Class Biology Urdu Medium Chapter 2 Preparation

Q1. Difference betwen Bacteria and Protists

Ans 1: Bacteria:

i. Prokaryotic organismsm

ii. They are unicellular, filamentous or colonial and are relatively simple in structure

Example: Bacterial and Cyanobacteria

Ans 2: Protists:

i. Eukaryotic organisms

ii. Univellular or simple multicellular and mostly equatic

Example: Amoeba, Euglena, and slime molds.

Q2. What is domain? Name three deomains of life.

Ans 1: In biology, a domain means the largest of all groups in the classification of life. Domain is group of kingdoms, or taxonomic catergory above the kingdoms. The three domains of life are Archaea. Bacterial and Eukarya.

Q3. Why are the followign scientists famous for? Aristotle, Carolus Linnacus, Carl Woese

Ans 1: Aristotle: The greek philosopher Aristole was the first person who classified the living organisms.

Ans 2: Carolus Linnaeus:He grouped speices according to similar physical characteristics. According to earlier classified into two kingdoms, then three kingdom and then five-kingdom system. He also introduced binomial nomenclature

Ans 3: Carl Woese:In 1990 Carl Woese introduced a three domatin system of classification the three domains of life are.i. Arehaeaii. Bacteriaiii. Eukarya

Q4. What are the seven taxonomic ranks used in the Linnaean system.

Ans 1: Linnaeus developed a system that went from broadest to most specific the level of classification he used are

Ans 2: Kingdom, phylum class, Order, Family, Genus and species.

Q5. Compare two kingdow, Kingdom, and five kingdom classifciation system.

Ans 1: Two Kingdom:

- i. It includes two kingdomw Plantae and nimalia
- ii. Bacteria and cyanobacteria were placed in plant kingdom
- iii. Uniellular or simple multicellular eukaryotes wrongly placed in kingdom plantae and animalia.
- iv. Fungi are wrongly placed in kingdom plantae

Ans 2: Three Kingdom:

- i. It includes three kingdoms plantae, Animalia, Protista
- ii. Euglena was placed in kingdom protista.
- iii. Multicellular microscopic organismsm were spearated from uncellular microscopic organisms.
- iv. Fungi were placed in kingdom plantae

Ans 3: Five Kingdom:

- i. It includes five kingdoms Monera, protista, Fungi, plantae and Aimals
- ii. Bacteria and cyanobacteria are placed in kingdom Moneara
- iii. Unicellular or simple multicellular eukaryotes placed in kingdom Protista
- vi. Fungi are placed in kingdom Fungi

Q6. Define Bionomial nomenclature.

Ans 1: Bionomial nomenclature is the method of giving scietific names to living organisms. Since each name has two partsso it is called binomial nomenclatur eg.g. biologial name of human being is Homo sapies Our genus name is homo and species name is sapiens.

Q7. What are basis of classification of life into domains?

Ans 1: Classification into three domains is based on difference in the sequence of nucleotides in the rRNA of the cell. the cell memberane lipid structur eand its sensitivity to antibiotics

Q8. How dows binomial nomenclature facilitate clear communication about organismsm across different langauges.

Ans 1: It facilitates by provideing a universal naming system for species.

Q9. What were the shortcomign of three kingdom classfication system.

Ans 1: i. Some taxonomists disagreed about athe positio of fungi in kingdom planatae

- ii. Fungi resemble platns in many ways but ar eheterotrophs Which get their food by absorption
- iii. They do not have cellulose in their cell wall but posses chitin

Q10. Describe aims of classification

Ans 1: The main aims and objectives of classification are:

- 1. To degermien similarities and difference betwene organisms.
- 2. To arrange organismsm on the basis of similarities and differences
- 3. Identify the organismsm to study them systematically
- 4. To find out evoultionary relationship among organisms.