

Biology - 12th Class Biology Chapter 24 Short Questions Preparation

Q1. Define theory of natural selection.

Ans 1: Natural selection occurs through an interaction between the environment and the variability population.

Q2. Name any four factors affecting gene frequency.

Ans 1: Following are the factors which cause change in gene frequency

Ans 2: i Genetic drift.

ii Migration

iii Selection

iv Random mating

Q3. What are hydrodermal vents?

Ans 1: Origin of life may begin deep in the oceans;in under water hot springs called hydrodermal vents.These vents could have supplied the energy & raw materials for the origin & survival of early life forms.

Q4. What are endangered species?Give one component of their conservation plan.

Ans 1: The species which are near to extinct in near future are called endangered species.

They can be conserved or protecting in botanical gardens,zoos,and making strict laws,preventing their hunting or cutting of trees.

Q5. What are vestigial organs?Give one example.

Ans 1: Organs which are rudimentary or non functional in present organisms but were full developed in the ancient organisms are called vestigial organs.

For Example: Appendix in man,ear muscles in man.

Q6. What is role of geographical barriers in evolution?

Ans 1: Due to geographical barrier the members of a population cannot meet with each other nor they can reproduce with each other.After a long time they show morphological as well as genetic differences due to living in different habitats and this leads to evolution of a new species.For Example:Wings of bird and wings of an insect.

Q7. Define Lamarkism and theory of special creation.

Ans 1: Lamark gave two important points of his theory of evolution

Ans 2: 1) Use and disuse of organs 2) Inheritance of acquired characters
According to this theory all living things came into existence in their present form especially and specifically created by nature.

Q8. Differentiate between endangered and extinct species.

Ans 1: Endangered Species: Endangered species are those which are near to extinct.

Ans 2: Extinct Species: Extinct species are those which have been vanished from biosphere and even a single member is not present on the earth anywhere.

Q9. Give the concept of fixed alleles.

Ans 1: If the members of a population are homozygous for the same allele, that allele is said to be fixed in the gene pool.

Q10. Define theory of special creation.

Ans 1: According to this theory all living things came into existence in their present form especially and specifically created by nature.
