

GENETICS, EVOLUTION OF LIFE & ECOLOGICAL BIODIVERSITY BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By [Careericons](#) Team

Q1. Group of organisms that closely resemble each other and freely interbreed in nature, constitute a

- a) family
 - b) species
 - c) genus
 - d) taxon
-

Q2. Which one is linked to evolution?

- a) Competition
 - b) Variation
 - c) Extinction
 - d) Reproduction
-

Q3. A dihybrid condition is

- a) Tt rr
 - b) tt rr
 - c) tt Rr
 - d) Tt Rr
-

Q4. The primitive atmosphere of earth contained water vapours, hydrogen, ammonia and

- a) O₂
- b) N₂

c) CO₂

d) CH₄

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Q5. Darwin's theory of natural selection is based on

- a) Survival of the fittest
- b) Over production
- c) Struggle for existence and variation
- d) All of the above

Q6. During the post-fertilisation period the ovules develop into _____ and the ovary matures into a _____.

- a) A – flower; B – seed
- b) A – seeds; B – fruit
- c) A – fruit; B – seeds
- d) A – seeds; B – flower

Q7. Which one of the following processes of weathering belongs to both mechanical and chemical weathering?

- a) Hydration
- b) Crystallization
- c) Exfoliation
- d) Carbonation

Q8. Flow of energy in an ecosystem is always

- a) Multi directional
 - b) Unidirectional
 - c) Bidirectional
 - d) No specific direction
-

Q9. The term 'Survival of Fittest' was used by

- a) Jean Baptiste
 - b) Charles Darwin
 - c) Herbert Spencer
 - d) Hugo de Vries
-

Q10. An alga very rich in protein is

- a) Oscillatoria
 - b) Spirogyra
 - c) Ulothrix
 - d) Chlorella
-

Q11. The process of translation is

- a) protein synthesis
 - b) DNA synthesis
 - c) ribosome synthesis
 - d) RNA synthesis
-

Q12. With reference to the evolution of living organisms, which one of the following sequences is correct?

- a) Salamander - Python - Kangaroo
- b) Octopus - Dolphin - Shark
- c) Pangolin - Tortoise - Hawk

d) Frog - Crab – Prawn

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Q13. Dinosaurs were

- a) Paleozoic amphibians
- b) Cenozoic reptiles
- c) Mesozoic birds
- d) Mesozoic reptiles

Q14. Consider the following statements :

- Earth is kept warm due to green house flux.
- The reproduction and other activities of living organisms are affected by the abiotic components of ecosystem.
- Ecology is the scientific study of the interaction of organisms with each other and the environment.

Which of these statement(s) is/are correct ?

- a) A, B and C
- b) A and B
- c) B and C
- d) None of these

Q15. Consider the following statements about Progeria :

- Progeria is the genetic disease associated with fast ageing.
- Progeria patients never live beyond early twenties.
- It happens due to point mutation replacing Cytosine by Thymine.

Which of the statement(s) given above is/are correct?

- a) 2 and 3
- b) 1 only
- c) 1, 2, 3

d) 2 and 3

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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (b)

Organic evolution is the process of cumulative change of living populations and the descendant populations of organisms. According to Darwin, variations are differences among individuals.

Variations which help the individual to fit in its surroundings are passed on to the next generation while others disappear. Thus, variation plays an important role in evolution.

Q3. Answer: (d)

Dihybrid condition involves simultaneous inheritance of two pairs of mendelian factors or genes.

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Q4. Answer: (d)

The primitive atmosphere of the earth contained : H_2O , H_2 , NH_3 & CH_4 . The ratio was (2 : 2 : 1) of : NH_3 , CH_4 and hydrogen.

Q5. Answer: (d)

Q6. Answer: (b)

Q7. Answer: (b)

Crystallization processes of weathering belong to both mechanical and chemical weathering. Mechanical or physical weathering involves the breakdown of rocks and soils through direct contact with atmospheric conditions, such as heat, water, ice and pressure.

Chemical weathering - the process by which the internal structure of a mineral is altered by the addition or removal of elements.

Q8. Answer: (b)

Energy flow in an ecosystem is always unidirectional in nature because most of the energy is released at the trophic level in the form of heat and performing metabolic activities.

Hence 10% is transferred from one trophic level to another. This makes a unidirectional flow of energy.

Q9. Answer: (c)

Herbert Spencer

He is a sociologist, who coined the phrase "survival of fittest" to explain the tendency of human society to change by itself as the strongest and fittest survive while the weak abolish themselves.

Q10. Answer: (d)

Chlorella can be grown to provide human food rich in proteins, lipids, carbohydrates, vitamins and minerals.

Q11. Answer: (a)

Protein synthesis occurs over ribosomes which are also referred to as protein factories.

Q12. Answer: (a)

Q13. Answer: (d)

Q14. Answer: (a)

Q15. Answer: (c)

Hutchinson–Gilford Progeria Syndrome is an extremely rare genetic disorder wherein symptoms resembling aspects of aging are manifested at a very early age. It is caused due to point mutation where cytosine is replaced by thymine.

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