

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. Homologous organs are

- a) gills of fish and lungs of rabbit
- b) pectoral fins of fish and fore limbs of horse
- c) wings of insects and bat
- d) wings of grasshopper and crow

Q2. Gene for colour blindness is located on

- a) X-chromosome
- b) 13th chromosome
- c) Y-chromosome
- d) 21st chromosome

Q3. Match List-I with List-II :

List-I (Name of the Scientist)	List-II (Contributions)
A. Charles Darwin	I. Mutation theory
B. Lamarck	II. Germplasm theory
C. Hugo de Vries	III. Philosophie Zoologique
D. Ernst Haeckel	IV. The Origin of species
E. August Weismann	V. Biogenetic law
	VI. Essay on population

Select the correct answer from the codes given below the lists: (A) (B) (C) (D) (E)

- a) A – IV; B – VI; C – V; D – III; E – I

- b) A – IV; B – III; C – I; D – V; E – II
 - c) A – IV; B – III; C – V; D – I; E – VI
 - d) A – II; B – III; C – I; D – V; E – II
-

Q4. The scientific name for the maximum modern man among these is

- a) Neanderthalensis
- b) Homosapiens
- c) Human species
- d) Homo sapiens

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Q5. The remains of mummies denote

- a) Historical reveals
 - b) The kind of preservative technique in that era
 - c) Evolutionary reveal
 - d) All of the above
-

Q6. Which of the following plants is growing in swampy areas, where many roots come out of the ground and grow vertically upwards?

- a) Rhizophora
 - b) Potato
 - c) Opuntia
 - d) Grass
-

Q7. Who propounded the theory of evolution?

- a) Wallace
 - b) Spencer
 - c) Darwin
 - d) Huxley
-

Q8. Match Column-I with Column-II :

Column-I	Column-II
A. Wing of a bat and wing of a bird	P. darwin
B. Dihybrid ratio	Q. Mendel
C. Natural selection	R. Analogous organ
D. Arm of a man and wing of a bird	S. Homologous organs

Select the correct answer from the codes given below the lists: (A) (B) (C) (D)

- a) A - R; B - Q; C - P; D- S
 - b) A - R; B - S; C - P; D - Q
 - c) A - R; B - Q; C - P; D - S
 - d) A - S; B - P; C-P; D-Q
-

Q9. Which of the following is not a part of Darwin's theory of evolution?

- a) Natural selection
 - b) Survival of the fittest
 - c) Genetic drift
 - d) Struggle for existence
-

Q10. Which is the oldest organism on earth?

- a) Amoeba
- b) Blue-green algae
- c) Fungi
- d) Euglena

Q11. Who explained first the evolution of life?

- a) Charles Darwin
 - b) Newton
 - c) Einstein
 - d) Lamarck
-

Q12. The main factor of evolution is

- a) Vaginal birth
- b) Mutation
- c) Achieved quality
- d) Natural selection

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Q13. The branches of this tree root themselves like new trees over a large area. The roots then give rise to more trunks and branches. Because of this characteristic and its longevity, this tree is considered immortal and is an integral part of the myths and legends of India. Which tree is this?

- a) Tamarind(Imli)
 - b) Banyan
 - c) Neem
 - d) Peepal
-

Q14. Which one of the following statements about viruses is correct?

- a) Viruses are facultative parasites.
- b) Viruses possess their own metabolic system.

- c) Viruses contain either DNA or RNA.
- d) Viruses are readily killed by antibiotics.

Q15. Who proposed that the first form of life come from preexisting non- living molecules?

- a) Darwin and Lamarck
- b) Oparin and Haldane
- c) de Vries and Haldane
- d) Louis Pasteur and Miller

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Answers to the above questions :

Q1. Answer: (b)

Organs that are similar in fundamental structure but different in functions are “homologous organs”, Richard Owen, introduced the term homologous. Pectoral fins of fish and fore limbs of horse similar in structure but different in functions are homologous organs. Rest of the organs compared in the question are analogous organs.

Q2. Answer: (a)

The gene which is responsible for colour blindness is carried on the X chromosome and this is the reason why many more men are affected than women. The blindness is manifested in terms of inability to distinguish between red and green colour.

Q3. Answer: (b)

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Q4. Answer: (d)

Q5. Answer: (d)

Q6. Answer: (a)

Q7. Answer: (c)

Q8. Answer: (c)

Q9. Answer: (c)

Q10. Answer: (b)

Q11. Answer: (d)

Q12. Answer: (d)

Q13. Answer: (a)

Q14. Answer: (c)

Viruses have either DNA or RNA as the genetic material. Viruses having RNA as the genetic material are known as Retroviruses.

Q15. Answer: (b)

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