

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

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. 'Archaeopteryx' is a connecting link between which of the following classes of animal?

- a) Reptilia and Mammalia
 - b) Amphibia and Aves
 - c) Reptilia and Aves
 - d) Aves and Mammalia
-

Q2. In which one of the following sets of animals do all the four give birth to young ones?

- a) Kangaroo, Hedgehog, Dolphin, , Loris
 - b) Platypus, Penguin, Bat, Hippopotamus
 - c) Shrew, Bat, Cat, Kiwi
 - d) Lion, Bat, Whale, Ostrich
-

Q3. In class of Amphibia, respiration occurs through

- a) skin
 - b) gills
 - c) lungs
 - d) All of these
-

Q4. Consider the following statements :

- Human beings have 23 pairs of chromosomes.
- Sex chromosome in human male are named XY.
- Chromosomes are best seen in metaphase.

Which of the statements given above are false about chromosomes?

- a) 1, 2 and 3
- b) 2 and 3
- c) 1 and 2
- d) None

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Q5. The factors which represent the contrasting pairs of characters are called

- a) alleles
- b) homologous pairs
- c) dominant and recessive
- d) determinants

Q6. Which of the following groups of plants are propagated through underground root?

- a) Pistia, Chrysanthemum and Pineapple
- b) Bryophyllum and Kalanchoe
- c) Ginger, Potato, Onion and Zamikand
- d) Sweet potato, Asparagus, Tapioca and Dahlia

Q7. Consider the following statements :

- A colourblind person cannot distinguish between red and green.
- Colour blindness is related with a defect in cone cells.

Which of the statements given above is/are correct?

- a) 1 and 2
- b) 2 only

c) 1 only

d) None

Q8. Binomial Nomenclature was given by

a) Carolus Linneaus

b) Lamarck

c) Ernst Mayr

d) Cuvier

Q9. The two strands of DNA are held together by

a) phosphodiester bonds

b) hydrogen bonds

c) peptide bonds

d) S – S bonds

Q10. Which was absent in the atmosphere at the time of origin of life ?

a) H_2

b) O_2

c) NH_3

d) CH_4

Q11. Speciation is

a) new environmental ways for existence

b) making of independent species

c) macro evolution

d) all of the above

Q12. A plant having seeds but lacking flowers and fruits belongs to

- a) Ferns
- b) Pteridophytes
- c) Mosses
- d) Gymnosperms

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Q13. A biogeographic region with significant reservoir of biodiversity that is under threat from humans is called as

- a) biodiversity reservoir
- b) bioendangered region
- c) biodiversity hotspot
- d) environmentally endangered region

Q14. Which one of these is not a food chain

- a) Plants ? Insects ? Frog ? Snake ? Kite
- b) Trees ? Deer ? Lion
- c) Plants ? Man ? Anaconda
- d) Small ? plants ? Crabs ? Fish ? Swan ? bird

Q15. What was the most significant trend in evolution of modern man (Homo sapiens) from his ancestors ?

- a) Shortening of jaws
- b) Binocular vision
- c) Upright posture
- d) Increasing brain capacity

Answers to the above questions :

Q1. Answer: (c)

Q2. Answer: (a)

Penguin, kiwi & ostrich all belong to class Aves of chordata (i.e. birds) and they do not give birth to their young ones, they are oviparous while kangaroo, hedgehog, dolphin, loris all belong to class mammalia and are viviparous.

Q3. Answer: (d)

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Q4. Answer: (d)

Humans have 46 chromosomes i.e., 23 pairs of chromosomes, of which 21 pairs are autosomes and 2 pairs are allosomes or sex chromosomes.

Human male sex chromosomes are named XY. During cell division, the chromosomes of every cell are most condensed and arrange themselves on the equatorial plane which makes them best visible.

Q5. Answer: (a)

Q6. Answer: (d)

Q7. Answer: (a)

In colour blindness there is no actual blindness but there is a deficiency of colour vision. The most usual cause is a fault in the development of one or more sets of retinal cones that perceive colour in light and transmit that information to the optic nerve.

Q8. Answer: (a)

Q9. Answer: (b)

Q10. Answer: (b)

Oxygen gas was not present due to reducing atmosphere, it only came to existence after the evolution of photosynthesis process.

Q11. Answer: (d)

Q12. Answer: (d)

Gymnosperms are vascular land plants having naked ovules i.e., ovules are not enclosed in an ovary hence, flower is absent. Ovules after fertilization produce naked seeds. Pteridophytes (ferns) and mosses do not produce seeds.

Q13. Answer: (c)

Q14. Answer: (c)

Q15. Answer: (d)

The most significant trend in evolution of modern man (Homo sapiens) from his ancestors is development of brain capacity.

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