



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

NCERT Exemplar Questions +2 (EVOLUTION)

Mcqs

1. Which of the following is used as an atmospheric pollution indicator

A. Lepidoptera

B. Lichens

C. Lycopersicon

D. Lycopodium

Answer: b



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2. According to spontaneous generation (Abiogenesis) theory proposed by Anaximander

A. life arose from living forms only

B. life can arise from both living and non-living

C. Life can arise from non-living things only

D. Life arises spontaneously, neither from living nor from the non-living.

Answer: c



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3. Animal husbandry and plant breeding programmes are the examples of

A. reverse evolution

B. artificial selection

C. mutation

D. natural selection

Answer: b



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4. Palaentological evidences for evolution refer to the

A. development of embryo

B. homologous organs

C. fossils

D. analogous organs

Answer: c



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5. The bones of forelimbs of whale, bat, cheetah and man are similar in structure, because.

- A. one organism has given rise to another
- B. they share a common ancestor
- C. they perform the same function
- D. they have biochemical similarities

Answer: b



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6. Analogous organs arise due to

A. divergent evolution

B. artificial selection

C. genetic drift

D. convergent evolution

Answer: d



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7. $p^2 + 2pq + q^2 = 1$ represents an equation used in

A. Population genetics

B. Mendelian genetics

C. Biometrics

D. Molecular genetics

Answer: a



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8. Appearance of antibiotic-resistant bacteria is an example of

A. adaptive radiation

B. transduction

C. pre-existing variation in the population

D. divergent evolution

Answer: c



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9. Evolution of life shows that life had a trend of moving from

- A. Land to water
- B. dryland to wet land
- C. fresh water to sea water
- D. water to land

Answer: d



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10. Viviparity is considered to be more evolved because

A. the young ones are left on their own

B. the young ones are protected by a thick shell

C. the young ones are protected inside the mother's body and are looked after they are born leading to more chances of survival

D. the embryo takes a long time to develop

Answer: c



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11. Fossils are generally found in

- A. sedimentary rocks
- B. igneous rocks
- C. metamorphic rocks
- D. any type of rock

Answer: a



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12. For the MN-blood group system, the frequencies of M and N alleles are 0.7 and 0.3, respectively. The expected frequency of MN-blood group bearing organisms is likely to be

A. 0.42

B. 0.49

C. 0.09

D. 0.58

Answer: a



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13. Which type of selection is industrial melanism observed in moth, *Biston betularia*?

A. Stabilizing

B. Directional

C. Disruptive

D. Artificial

Answer: b



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14. The most accepted line of descent in human evolution is

A. Australopithecus → Ramapithecus

→ Homo sapiens → homo sapiens `

B. Homo erectus → Homo habilis →

Homo sapiens

C. Ramapithecus → Homo habilis →

Homo erectus → Homo sapiens

D. Australopithecus → Ramapithecus

→ Homo erectus → Homo habilis

→ Homo sapiens

Answer: c



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15. Which of the following is an example for link species?

A. Lobe fish

B. Dodo bird

C. Sea weed

D. Tyrannosaurus rex

Answer: a



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16. Match the scientists listed under column 'A' with ideas listed column 'B'.



A. A) i-M, ii-P, iii-N, iv-O

B. B) i-P, ii-M, iii-N, iv-O

C. C) i-N, ii-P, iii-O, iv-M

D. D) i-p, ii-O, iii-N, iv-M

Answer: b



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17. In 1953 S.L. Miller created primitive earth conditions in the laboratory and gave experimental evidence for origin of first form of life from pre-existing non-living. Organic molecules. The primitive earth conditions created include.

A. low temperature, volcanic storms,
atmosphere rich in oxygen

B. low temperature, volcanic storms,
reducing atmosphere

C. high temperature, volcanic storms, non-reducing atmosphere

D. high temperature, volcanic storms, reducing atmosphere containing CH_4 , NH_3 etc

Answer: d



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18. Variations during mutations of meiotic recombinations are

A. random and directionless

B. random and directional

C. random and small

D. random, small and directional

Answer: a



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