



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. The theory of spontaneous generation stated that:

- 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. $(P + Q)^2 = p^2 + 2pq + Q^2 = 1$ 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 forms 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 bitularia*?

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 → h

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'.

Column 1

- (i) Darwin
- (ii) Oparin
- (iii) Lamarck
- (iv) Wagner

Column 2

- (M) abiogenesis
- (N) use and disuse of organs
- (O) continental drift theory
- (P) evolution by natural selection

- A. i-M, ii-P, iii-N, iv-O
- B. i-P, ii-M, iii-N, iv-O
- C. i-N, ii-P, iii-O, iv-M
- 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 preexisting 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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