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Q-1 - 18244346

Which of the following statements is incorrect

- (A) J.B.S. Haldane-law of continuity of germplasm
- (B) Louis pasteur-germ theory of disease and immunology
- (C) de Vries-mutation theory
- (D) Lemaitre-big bang theory

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**CORRECT ANSWER: A**

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Among the following sets of examples for divergent evolution, select the incorrect option

- (A) Brain of bat, man and cheetah
  - (B) Heart of bat, man and cheetah
  - (C) Forelimbs of man, bat and cheetah
  - (D) Eye of Octopus, bat and man
- 

**SOLUTION:**

Divergent evolution results in homologous structures .

These organs have the same fundamental structure but are different in functions . Structural homology is seen in brain , heart and forelimbs of man , bat and cheetah .

Eyes of Octopus , bat and man are examples of

analogous organs which show convergent evolution .

Therefore , option (d) is incorrect .

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Q-3 - 41938032

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

(A) Stabilising

(B) Directional

(C) Disruptive

(D) Artificial

---

CORRECT ANSWER: 2

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Which cannot be explained by Lamarckism ?

- (A) Loss of tail by humans
- (B) Elongation by neck in Giraffe
- (C) Weak progeny of a Nobel laureate
- (D) None of the above

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CORRECT ANSWER: C

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SOLUTION:

Weak progeny of a Noble laureate cannot be explained by Lamarckism.

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Industrial melanism was highlighted by

(A) *Mimosa pudica*

(B) *Triticum aestivum*

(C) *Biston betularia*

(D) Rock python

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CORRECT ANSWER: C

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Q-6 - 18244666

During evolution of man many changes have taken place in his ancestral characters. Which one of the following is an insignificant change

(A) Change of diet from hard tough fruits and roots into

soft food

(B) Qualitative improvement in the structure of hands

skills for making tools

(C) Disappearance of tail

(D) Improvement in speech for communication and

social behaviour

---

CORRECT ANSWER: C

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Q-7 - 18244742

Which of the following is an example for link species

(A) Lobe fish

(B) Dodo bird

(C) Sea weed

(D) Chimpanzee

---

CORRECT ANSWER: D

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Q-8 - 18244751

Following are the statements regarding the origin of life

- (A) The earliest organisms that appeared on the earth were non-green and presumably anaerobes
- (B) The first autotrophic organisms were the chemoautotrophs that never released oxygen. Of the above statements which one of the following options is correct

(A) (A) is correct but (B) is false

(B) (B) is correct but (A) is false

(C) Both (A) and (B) correct

(D) Both (A) and (B) false

---

CORRECT ANSWER: C

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Q-9 - 18244358

Which one of the following is incorrect about the characteristics of protobionts (coacervates and microspheres) as envisaged in the abiogenic origin of life)

- (A) They were partially isolated from the surroundings
  - (B) They could maintain an internal environment
  - (C) They were able to reproduce
  - (D) They could separated combinations of molecules from the surrounding
- 

CORRECT ANSWER: C



Q-10 - 36806140

The term for similarity in organ structure seen in great diversity is

Or

The similarity of bone structure in the forelimbs of many vertebrates is an example on

(A) convergent evolution

(B) analogy

(C) homology

(D) adaptive radiation

---

**SOLUTION:**

The similarity of bone structure in the forelimbs of many vertebrates is an example of homology . The

homologous organs have the same fundamental structure but are adapted to perform different functions ,e.g. forelimbs of man , cheetah , whale and bat .

Analogous organs show convergent evolution . These organs have similar functions but are different in their structural details and origin . Development of different functional structures from a common ancestral form is called adaptive radiation .

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Q-11 - 41938059

Forelimbs of whale, bat, cheetah and human do not show-

- a. Similarities in the pattern of bones
- b. Adaptive radiation
- c. Analogous organs
- d. Convergent evolution

e. Divergent evolution

f. Different structures evolving for same functions

(A) a, b and c

(B) c, d and f

(C) a and d

(D) a, b and c

---

CORRECT ANSWER: 2

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Q-12 - 42227630

First photosynthetic organisms to appear on earth were

(A) Bacteria

(B) Green algae

(C) Cyanobacteria

(D) Bryophytes

---

CORRECT ANSWER: C

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SOLUTION:

First photosynthetic organisms to appear on earth were cyanobacteria.

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Q-13 - 18244748

If you go back in the history approx. 4500 million years back when atmosphere was reducing the organism were

(A) Autotroph, aerobic

(B) chemo-autotroph, anaerobic

(C) Chemo-heterotroph, anaerobic

(D) Heterotroph, anaerobic

---

CORRECT ANSWER: C

---

SOLUTION:

The first living organisms developed in reducing atmosphere were chemo-heterotrophs as they required ready-made organic materials as food and anaerobes as they were capable of respiration in the absence of oxygen.

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Q-14 - 18244776

Which of the following was expert in making tools, weapons painting etc

Or

Whose drew excellent pictures of animals in caves, made tools, curved ornaments from ivory stone arrows etc

(A) Java ape man

(B) Peking man

(C) Cro-Magnon man

(D) Rhodesian man

---

CORRECT ANSWER: C

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Q-15 - 18244825

Homeostasis is

(A) Disturbance in regulatory control

(B) Tendency to resist internal changes

(C) Plant and animal extracts used in homeopathy

(D) A tendency to change with change in environment

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CORRECT ANSWER: B

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Q-16 - 26088715

Palaentological evidences for evolution refer to the

(A) development of embryo

(B) homologous organs

(C) fossils

(D) analogous organs

---

CORRECT ANSWER: C

---

SOLUTION:

( c) Paleontological evidence for evolution refer to the evidences from fossils. Fossils are the preserved remains or traces of organism from the distant past. The study of fossils is called Palaeontology. The other options are not correct because the development patterns of embryo refer to embryological evidence for evolution.

Homologous and analogous organs provide evidences for comparative anatomy and morphology.

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Q-17 - 30704819

Select the scientist who was able to form polypeptides from amino acids nonenzymatically without ribosomes

(A) Orgel



(B) Fox

(C) Urey

(D) Miller and Urey

---

CORRECT ANSWER: B

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Q-18 - 30704828

First autotrophs were

(A) Anaerobic

(B) Aerobic

(C) Oxygenic but anaerobes

(D) Mixed

---

CORRECT ANSWER: A

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Q-19 - 18244636

Prodigality of reproduction in darwinism refers to

- (A) Every organism produces numerous offspring
  - (B) Successful organism produce numerous offspring
  - (C) Only a few individuals are able to reproduce
  - (D) Only a few individuals are able to survive
- 

**CORRECT ANSWER: B**

Q-20 - 42227653

Which is relatively most accurate method of dating of fossils ?

(A) Radioactive carbon method

(B) Potassium-Argon method

(C) Electron spin-resonance method

(D) Uranium-lead method

---

CORRECT ANSWER: C

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SOLUTION:

Electron spin-resonance method is relatively most accurate method of dating of fossils.

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Q-21 - 18244760

Present day mammals have their predecessor in

(A) Therapsids

(B) Diapsids

(C) Synapsids

(D) Anapsids

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CORRECT ANSWER: A

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Q-22 - 18244820

Species diversity generally increases as one proceeds from

(A) Low altitude to high altitude, and from low latitude to high latitudes

(B) High altitude to low altitude, and from low latitudes to high latitudes

(C) High altitudes to low altitudes, and from high latitudes to low latitudes

(D) Low altitudes to high altitudes, and from high latitudes to low latitudes

---

CORRECT ANSWER: C

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SOLUTION:

The environmental conditions in these region are favourable and hence species have become diversified.

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Q-23 - 26088723

Fossils are generally found in

- (A) sedimentary rocks
- (B) igneous rocks
- (C) metamorphic rocks

(D) any type of rock

---

CORRECT ANSWER: A

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SOLUTION:

(a) Fossils are generally found in sedimentary rocks, which are formed by the gradual deposition of silt, sand or calcium carbonate over millions of years in regions such as lakes or sea during their formation, the dead animals are carried to the sea or large lake, sink down and get buried in the rocks. The animals, thus preserved in the rocks, are converted into fossils.

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Q-24 - 30704826

Primary atmosphere contained

(A)

$CO_2$ ,  $NH_3$  and  
 $H_2O$

(B)

$CH_4$ ,  $NH_3$ ,  
 $H_2$  and  $H_2O$

(C)

$CO_2$ ,  $N_2$ ,  
 $H_2$  and  $H_2O$

(D)

$CH_4$ ,  $CO_2$ ,  $N_2$ ,  
 $O_2$  and  $H_2O$

---

CORRECT ANSWER: B

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Q-25 - 30704843

Eucaryotes developed around

(A) 1.6 billion years ago

(B) 2.0 billion years ago

(C) 2.5 billion years ago

(D) 2.8 billion years ago

---

CORRECT ANSWER: A

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Q-26 - 30704835

what is the peculiarity of chemoautotrophs?

(A) Synthesis their own organic food

(B) Pick up energy from chemical reactions

(C) Convert light energy into chemical energy

(D) Both A and B

---



CORRECT ANSWER: D

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Q-27 - 42227672

According to Darwin, diversity as found in Australian marsupials is due to

- (A) Convergent evolution
- (B) Adaptive radiation
- (C) Parallel rediation
- (D) Parallel evolution

---

CORRECT ANSWER: B

---

SOLUTION:

According to Darwin, diversity as found in Australian

marsupials is due to adaptive radiation.

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Q-28 - 18244656

Which of the following had the smallest brain capacity

- (A) Homo sapiens
- (B) Homo neanderthalensis
- (C) Homo habilis
- (D) Homo erectus

---

CORRECT ANSWER: C

---

SOLUTION:

Brain capacity of Homo habilis was 650-800 CC while

Homo erectus showed 900 CC, Homo neanderthalensis

showed 1400 CC, Homo sapiens showed 1450 CC cranial capacity.

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Q-29 - 18244754

A species that contains two or more sub-species are called

- (A) Sibling species
- (B) Sub-species pool
- (C) Polytypic species
- (D) Biological races

---

CORRECT ANSWER: C

---

SOLUTION:

Species having more than one subspecies are called

polytypic species, while the species having no subspecies are called monotypic species.

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Q-30 - 18244765

Organisms which obtain energy by the oxidation of reduced inorganic compounds are called

- (A) Saprozoic
- (B) Chemoautotrophs
- (C) Photoautotrophs
- (D) Coproheterotroph

---

CORRECT ANSWER: B

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Which one provides correct sequence of events in origin of species according to Darwinism ?

1. Natural selection
2. Variations and their inheritance ?
3. Survival of fittest
4. Struggle for existence

(A) 1,2,3,4

(B) 2,3,1,4

(C) 3,4,1,2

(D) 4,2,3,1

---

**CORRECT ANSWER: D**

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**SOLUTION:**

The correct sequence of events in origin of new species according to Darwinism.

4. Struggle for existence
2. Variations and their inheritance
3. Survival of the fittest
1. Natural selection

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Q-32 - 18244777

Select the correct match

- (A) Gibbon-Cercopithecoidea
  - (B) Lemur- Prosimii
  - (C) New world monkey-Hominoidea
  - (D) Tarsier- Anthroidea
-

CORRECT ANSWER: B

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Q-33 - 18244818

Geologically one of the following eras is known as "golden age of Reptiles" or "Golden age of Dinosaurs"

(A) Mesozoic

(B) Cenozoic

(C) Palaeozoic

(D) None of the above

---

CORRECT ANSWER: A

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Q-34 - 18244369

Which one of the following amino-acids was not found to be synthesized in Miller's experiment

(A) Glutamic acid

(B) Alanine

(C) Glycine

(D) Aspartic acid

---

CORRECT ANSWER: A

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Q-35 - 41938037

Variations during mutations of meiotic recombinations are

(A) Random and directionless

(B) Random and directional



(C) Random and small

(D) Random, small and directional

---

CORRECT ANSWER: 1

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Q-36 - 18244623

By the statement 'Survival of the Fittest'. Darwin meant that

(A) The strongest of all species survives

(B) The most intelligent of the species survives

(C) The cleverest of the species survives

(D) The most adaptable of the species to changes survives

---

CORRECT ANSWER: D

---

Q-37 - 18244762

Which one of the following sequence was proposed by Darwin and Wallace for organic evolution

- (A) Variation, natural selection, overproduction, constancy of population size
- (B) Overproduction, variations, constancy of population size, natural selection
- (C) Variations, constancy of population size, overproduction, natural selection
- (D) Overproduction, constancy of population size, variations, natural selection

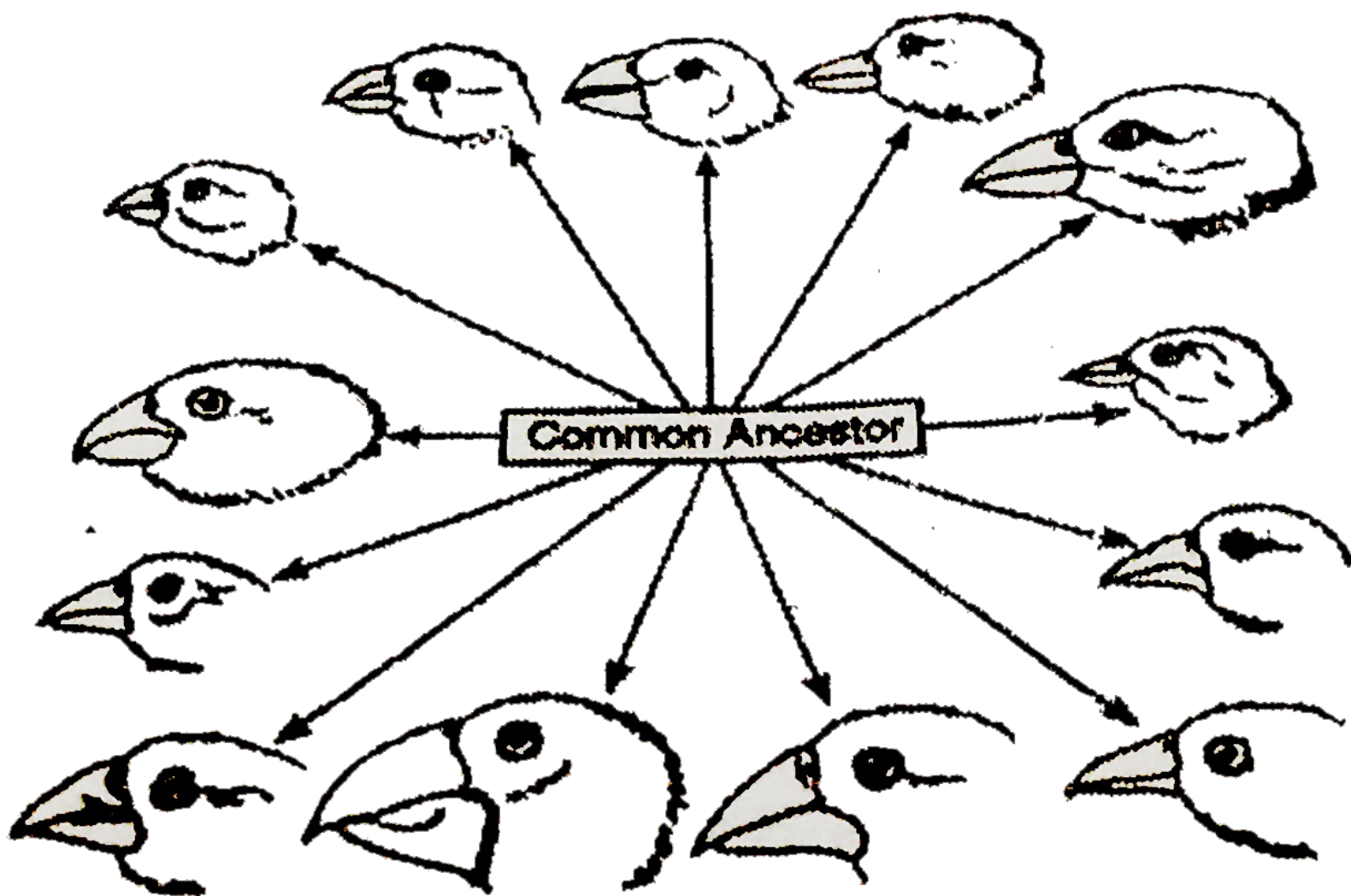
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**CORRECT ANSWER: D**

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Q-38 - 18244788

The diversity within the wild bird species in the given figure can best explained by which process



- (A) Natural selection
- (B) Adaptive radiation
- (C) Ecological succession
- (D) Both (a) and (b)

CORRECT ANSWER: D

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Q-39 - 18244822

To be evolution of successful, a mutation must occur in

- (A) Germplasm DNA
  - (B) Somatoplasm DNA
  - (C) RNA
  - (D) Cytoplams
- 

CORRECT ANSWER: A

---

SOLUTION:

The mutations which occure in germplasm DNA are heritable and natural selection becomes active over such

mutations.

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Q-40 - 18244827

When two related populations occupy geographically or spatially separate areas, they are called.

OR

The organisms separated by geographical barriers are termed

- (A) Allopatric population
- (B) Quantum population
- (C) Saltational population
- (D) Parapatric population

---

CORRECT ANSWER: A

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A theory of explain the mechanism of evoluto based on change in the structure of gene was put forth by :

(A) De Vries

(B) Darwin

(C) Lamarck

(D) Wallace

---

CORRECT ANSWER: A

---

SOLUTION:

A theory explaining the mechanisms of evolution based on change of gene structure was forward by de Vries.

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Apperance of dark-coloured peppered moths among the light-coloured ones as a result of increased industrial pollution is an example of

- (A) Disruptive selection
- (B) Stabilising selection
- (C) Directional selection
- (D) None of the above

---

CORRECT ANSWER: C

---

SOLUTION:

Directional selection is the natural selection that favours the establishment of one particular advantageous mutation within a population, resulting in a change in

phenotype in that direction.

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Q-43 - 18244721

Ancestor of man who first exhibited bipedal gait

- (A) Australopithecus
- (B) Cro-Magnon man
- (C) Java ape man
- (D) Peking man

---

CORRECT ANSWER: A

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Q-44 - 18244779

Species is



(A) Population of individuals having same genotypes and phenotypes

(B) A group of individuals inhabiting a geographical area

(C) A group of interbreeding populations

(D) Population of one type

---

CORRECT ANSWER: C

---

SOLUTION:

Species are the groups of individuals that sexually interbreed or are potentially interbreeding form.

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Q-45 - 18244824

In case of evolution which of the following statements is not correct

(A) Fossilized animals provided important information to trace evolution

(B) Wing of birds and forelimbs of cows are homologous

(C) In higher animals early development stages are similar

(D) Variation among individuals are not important in natural selection

---

**CORRECT ANSWER: A**

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**SOLUTION:**

Since variations, which help the organisms in adaptations, are selected by nature and form the basis of evolution.

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Major radiation of mammals birds and pollinating insects took place in which epoch

(A) oligocene

(B) eocene

(C) pliocene

(D) paleocene

---

CORRECT ANSWER: D

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Coacervates are

(A) Protobionts having polysaccharide+protein +  $H_2O$

(B) Protein aggregate

(C) Protein and lipid aggregates

(D) None of these

---

CORRECT ANSWER: A

---

SOLUTION:

Protobionts are prebiotic chemical aggregates having one or more properties of living system. Process of aggregation of organic molecules is called coacervation. It produced three types of protobionts - coacervates, microspheres and vesicles. Coacervates are reversible emulsoid aggregates consisting of protein and polysaccharide with some water.

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Homologous organs are :

- (A) Wings of cockroach and wings of bats
  - (B) Wings of insects and wings of birds
  - (C) Air bladder of fishes and lungs of frog
  - (D) Pectoral fins of fishes and forelimbs of horse
- 

CORRECT ANSWER: 3

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Original features of Darwin's finches in Galapagos is- lands were adapted for

- (A) Flesh eating

(B) Insect eating

(C) Fish eating

(D) Seed eating

---

CORRECT ANSWER: D

---

SOLUTION:

Original features of Darwin's finches in Galapagos islands were adapted for seed eating.

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Q-50 - 18244621

The Darwinian fitness of an organism is a measure of

(A) Its ability, relative to others in the population to pass its genes to the next generation

(B) The number of offspring it produces

(C) Its lifespan

(D) Its physical vigour

---

**CORRECT ANSWER: D**

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Q-51 - 18244672

The prehistoric ancestor of man which existed during late pleistocene, is

Or

The extinct human who lived 1,00,000 to 40,000 years ago, in Europe, Asia and parts of africa, with short stature, heavy eyebrows, retreating fore heads, large jaws with heavy teeth, stocky bodies a lumbering gait and stooped posture was

(A) Australopithecus

(B) Zinjanthropus

(C) Neanderthal man

(D) Atlantic man

---

**CORRECT ANSWER: C**

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Q-52 - 18244750

The ancestors of modern day Frogs and Salamanders are

(A) Ichthyophis

(B) Jawless fish

(C) Amphioxus

(D) Coelocanth

---



CORRECT ANSWER: D

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Q-53 - 18244639

Which one of these is not a case of artificial selection

- (A) Shetland pony
- (B) Great dane dog
- (C) Broccoli
- (D) Peppered moth

---

CORRECT ANSWER: D

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Q-54 - 18244355

According to chemosynthetic generationtheory, the sequence of

origin of life may be considered as :

- (A) Amino acid-protein-chlorophyll
  - (B) Chlorophyll-starch-glycogen
  - (C) Nucleic acid-amino acid-chlorophyll
  - (D) chlorophyll-nucleic acid -amino acid
- 

CORRECT ANSWER: A

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Q-55 - 41938033

The most accepted line of descent in human evolution is

- (A) Australopithecus → Ramapithecus → Homo sapiens → homo habilis
- (B) Homo erectus → Homo habilis → Homo sapiens

(C) Ramapithecus → Homo habilis → erectus →  
Homo sapiens

(D) Australopithecus → Ramapithecus → Homo  
erectus → Homo habilis → Homo sapiens

---

CORRECT ANSWER: 3

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Q-56 - 42227602

The first life on earth originated from nonliving materials has been explained by

- (A) Theory of biogenesis
  - (B) Theory of abiogenesis
  - (C) Theory of special creation
  - (D) Theory of extra-terrestrial origin
-

CORRECT ANSWER: B

---

SOLUTION:

The first on earth originated from nonliving materials has been explained by theory of abiogenesis.

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Q-57 - 18244632

In which case Darwin theory is wrong

- (A) Arrival of the fittest
  - (B) Survival of the fittest
  - (C) Origin of species
  - (D) High efficiency of reproduction
- 

CORRECT ANSWER: A

---

Q-58 - 18244676

Evolution of man is possible because our ape like ancestors has

- (A) Migratory instinct
  - (B) Developed brain
  - (C) Binocular vision
  - (D) Large cranial capacity
- 

**CORRECT ANSWER: D**

Q-59 - 18244737

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
- 

CORRECT ANSWER: C

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Q-60 - 18244752

Given below are four statements (A-D) each with onw or two blanks. Select the the option which correctly fills up the blanks in two statements:

(A) Wimgs of butterfly and birds look alike and are the results of i, evolution.

(B) Miller showed that  $CH_4$ ,  $H_2$ ,  $NH_3$  and i, when exposed to electric discharge in a flask resulted in formation of ii.

(C) Vermiform appendix is a i organ and an ii evidence of evolution.

(D) According to Darwin evolution took place due to i and ii of the fittest.

(A) (D)-(i) Small variations, (ii) Survival (A)-(i)

Convergent

(B) (A)-(i) Convergent, (B)-(i) Oxygen, (ii) nucleosides

(C) (B)-(i) Water vapour, (ii) Amino acids (C)-(i)

Rudimentary, (ii) Anatomical

(D) (C)-(i) Vestigial, (ii) Anatomical (D)-(i) Mutations, (ii)

Multiplication

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CORRECT ANSWER: A

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## SOLUTION:

According to Darwin, evolution took place due to small variation and survival of the fittest. Wings of butterfly and birds are analogous or convergent. Vermiform appendix is vestigial organ.

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Q-61 - 18244659

Human belong to the family

- (A) Hominidae
- (B) Pongidae
- (C) Hylobatidae
- (D) Ramapithecus

---

CORRECT ANSWER: A



Q-62 - 42227690

Dark coloured Peppered Moth is able to survive in industrial areas as compared to light coloured form because of

- (A) High fecundity
- (B) Mimicry
- (C) Natural selection in smoky environment
- (D) Lethal mutation

---

**CORRECT ANSWER: C**

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**SOLUTION:**

Dark coloured Peppered Moth is able to survive in industrial areas as compared to light coloured form because of natural selection in smoky environment.

Q-63 - 18244366

Select the correct statement from the following

- (A) Darwinian variations are small and directionless
- (B) Fitness is the end result of the ability to adapt and gets selected by nature
- (C) All mammals except whales and camels have seven cervical vertebrae
- (D) Mutations are random and directional

---

**CORRECT ANSWER: B**

Q-64 - 41938035

Match the scientists listed under Column 'A' with ideas listed under column 'B'

Column I	column II
Darwin	(i) Abiogenesis
Oparin	(ii) Use and disuse of organs
Lamrack	(iii) continental drift theory
Wagner	(iv) ) 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)

$$i - P, ii - O, iii - N, iv - M$$

---

CORRECT ANSWER: 2

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Q-65 - 42227618

Swan-necked flask experiment was performed by

- (A) Louis Pasteur
- (B) Robert Koch
- (C) Francisco Redi
- (D) Aristotle

---

CORRECT ANSWER: A

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SOLUTION:

Swan-necked flask experiment was performed by Louis Pasteur.

---

Q-66 - 18244625

The correct meaning of natural selection is

- (A) Loss of uncompetant
- (B) Survival of the fittest
- (C) Variation
- (D) Struggle for existence

---

**CORRECT ANSWER: B**

Q-67 - 18244668

The first fossil of Australopithecus was discovered in

(A) Olduvai Gorge, Tanzania

(B) Fayum deposits of Egypt

(C) Siwalik hills in India

(D) Taung in South Africa

---

CORRECT ANSWER: D

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Q-68 - 18244686

Bipedal locomotion is advantageous because it

(A) Releases fore limbs to perform the important functions

(B) Increases the speed

(C) Reduces body weight

(D) Provides better support to the body

---

CORRECT ANSWER: A

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Q-69 - 18244397

Big bang theory was proposed by

(A) Kant

(B) Lemaitre

(C) K.Bahadur

(D) Weismann

---

CORRECT ANSWER: B

---

SOLUTION:

Big bang theory was proposed by lemaitre in 1931

---

Q-70 - 41938066

There would be no evolution if :

- (A) The inheritance of acquired characters did not take place
- (B) Somatic variations were not inheritable
- (C) Genetic variations were not found among members of population
- (D) Somatic variations would not transform into germinal variations

---

**CORRECT ANSWER: 3**



Which one is considered the first biological catalyst when life originated on earth?

(A) RNA

(B) DNA

(C) Protein

(D) Lipid

---

CORRECT ANSWER: A

---

SOLUTION:

RNA is considered the first biological catalyst (ribozyme) when life originated on earth.

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Peking man' is known as

Or

Which of the primate is the closest relative of man

(A) Australopithecus

(B) Sinanthropus

(C) Pithecanthropus

(D) Homo sapiens

---

CORRECT ANSWER: B

---

SOLUTION:

Peking man' is also known as homoerectus pekinensis  
or Sinanthropus pekinensis.

Man was originated in which of the following era

(A) Paleocene

(B) Pliocene

(C) Miocene

(D) Devonian

---

CORRECT ANSWER: B

---

SOLUTION:

Pliocene is the epoch of tertiary period of coenozoic era.

Man was originated in this era.

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The classical example of adaptive radiation in development of new species is

- (A) Darwin finches
  - (B) Marsupials of Australia
  - (C) Giant turtle
  - (D) All of these
- 

**CORRECT ANSWER: D**

---

**SOLUTION:**

Development of different functional structures from a common ancestral form is called adaptive radiation.

These are-1. Darwin's finches of the Galapagos Islands.

2. Australian Marsupials.

3. Limbs of mammals.

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The tendency of population to remain in genetic equilibrium may be disturbed by

(A) Lack of random mating

(B) Random mating

(C) Lack of migration

(D) Lack of mutations

---

**CORRECT ANSWER: A**

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What does the term 'reproductive isolation' refers to

- (A) An individual is unable to fertilise itself
  - (B) Genes are not exchanged between two population
  - (C) Individuals from two population never mate
  - (D) Individuals from two populations never produce offsprings
- 

CORRECT ANSWER: B

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Q-77 - 30704829

First aerobic photoautotrophs developed around

- (A) 3.8-4.0 billion years ago
- (B) 3.5-3.8 billion years ago
- (C) 3.3-3.5 billion years ago

(D) 2.8-3.2 billion years ago

---

CORRECT ANSWER: C

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Q-78 - 30704837

Microspheres resemble living beings in their ability to

(A) Assimilate chemicals

(B) Grow

(C) Divide

(D) All the above

---

CORRECT ANSWER: D

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Q-79 - 18244368

The concept of chemical evolution is based on

- (A) Crystallization of chemicals
  - (B) Interaction of water, air and clay under intense heat
  - (C) Effect of solar radiation on chemicals
  - (D) Possible origin of life by combination of chemicals under suitable environmental conditions
- 

**CORRECT ANSWER: D**

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Q-80 - 41938072

On galapagos island Darwin observed variation in beaks of birds (Dawrin's finches) and he concluded :

- (A) Interspecies variation



(B) Intraspecies variation

(C) Natural selection according to food

(D) Inheritance of acquired characters

---

CORRECT ANSWER: 3

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Q-81 - 42227626

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

(A)  $NH_3$

(B)  $H_2$

(C)  $O_2$

(D)  $CH_4$

---

CORRECT ANSWER: C

---

SOLUTION:

$O_2$  gas absent in the atmosphere at the time of origin of life.

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Q-82 - 18244662

The age of the fossil of Dryopithecus on the geological time scale is

- (A)  $75 \times 10^6$  years back
- (B)  $25 \times 10^6$  years back
- (C)  $2.5 \times 10^6$  years back
- (D)  $50 \times 10^6$  years back

---

CORRECT ANSWER: B

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The characters such as pointed elongated snout, strong and stout forelimbs, well developed claws are observed in \_\_\_\_\_adaptation

- (A) Arboreal
- (B) Aerial
- (C) Cursorial
- (D) Fossorial

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Flagella of prokaryotic and eukaryotic cells differ in

- (A) Microtubular organization and type of movement

(B) Microtubular organization and function

(C) Type of movement and placement in cell

(D) Location in cell and mode of unctioning

---

CORRECT ANSWER: A

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Q-85 - 18244408

There was no life in

(A) Azoic era

(B) Mesozoic era

(C) Palaeozoic era

(D) Cenozoic era

---

CORRECT ANSWER: A

---

Q-86 - 41938097

Being all mammals, whale, dolphins, bat, monkey and horse have some common character but they also show conspicuous differences. This is due to phenomenon of

(A) Normalisation

(B) Genetic drift

(C) Divergence

(D) Convergence

---

CORRECT ANSWER: 3

Q-87 - 42227650

Convergent evolution is illustrated by

- (A) Rat and Dog
- (B) Bacterium and Protozoan
- (C) Starfish and Cuttle fish
- (D) Dogfish and Whale

---

CORRECT ANSWER: D

---

SOLUTION:

Convergent evolution is illustrated by dogfish and whale.

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Q-88 - 18244633

Main basis of Neo-Darwinism is

Or

Initiating force of evolution is

(A) Struggle for existence

(B) Variations

(C) Survival of the fittest

(D) Gene theory

---

CORRECT ANSWER: B

---

SOLUTION:

Darwinism could not explain the origin of adaptive characters. Neo-Darwinism could explain the sources of variability.

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Which of the following is the correct sequence of events in the origin of life

I. Formation of protobionts

II. Synthesis of organic monomers

III. Synthesis of organic polymers

IV. Formation of DNA-based genetic systems

(A) II, III, IV, I

(B) I, II, III, IV

(C) I, III, II, IV

(D) II, III, I, IV

---

**CORRECT ANSWER: D**

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Which organisms changed earth's atmosphere from reducing to oxidising?

(A) chemoautotrophs

(B) Bacterial phototrophs

(C) Blue-green algae/oxygenic phototrophs

(D) Chemoheterotrophs.

---

CORRECT ANSWER: C

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Q-91 - 30704842

Protobionts gave rise to

(A) Primitive procaryotes

(B) Primitive eucaryotes

(C) Primitive mesocaryotes

(D) All the above

---

CORRECT ANSWER: A

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Q-92 - 30704848

In Miller's experiment, the control contained all the ingredients except

(A) Electric sparks

(B) Condenser

(C) Boiling apparatus

(D) Methane

---

CORRECT ANSWER: A

---

Q-93 - 30704838

Viruses might have developed

- (A) Simultaneously with development of protobionts
  - (B) From eucaryotes
  - (C) From aerobic procaryotes
  - (D) From chemoautotrophs
- 

**CORRECT ANSWER: A**

Q-94 - 42227676

According to Darwin, evolution is

- (A) Sudden but discontinuous process
  - (B) Slow, gradual, continuous process
  - (C) Slow, sudden and discontinuous process
  - (D) Slow and discontinuous process
- 

CORRECT ANSWER: B

---

SOLUTION:

According to Darwin, evolution is slow, gradual, continuous process.

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Q-95 - 18244663

Which of the following is true for 'Homo sapiens'?

- (A) Protruded mouth

(B) Cranial capacity of 1450 c.c

(C) Omnivorous

(D) Developed chin

---

**CORRECT ANSWER: B**

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Q-96 - 18244775

Select the wrong pair

(A) Haldane - Hot dilute soup

(B) Oparin - Protobiont

(C) Fox - Coacervates

(D) Spallanzani - Abiogenesis

---

**CORRECT ANSWER: D**

---

Q-97 - 18244783

A potential danger to a population that has been greatly reduced in number is the

- (A) Hardy-Weinberg disequilibrium
- (B) Tendency towards assortative mating
- (C) Reduced gene flow
- (D) Loss of genetic variability

---

CORRECT ANSWER: D

Q-98 - 18244821

What is correct

(A) Natural selection is responsible for extinction of dinosaurs

(B) Lion and leopard have convergent evolution

(C) Homo habilis and homo erectus are closely related

(D) Biston betularia shows cryptic camouflage

---

CORRECT ANSWER: D

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Q-99 - 18244375

The idea that life origination from pre-existing life is referred as

(A) Biogenesis theory

(B) Special creation theory

(C) Abiogenesis theory

(D) Extraterrestrial theory

---

CORRECT ANSWER: A

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Q-100 - 41938080

Industrial melanism is an example of

(A) Drug resistance

(B) Darkening of skin due to smoke from industries

(C) Protective resemblance with the surroundings

(D) Defensive adaptation of skin against ultraviolet radiations

---

CORRECT ANSWER: 3

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Life cannot originated from inorganic materials now because of

(A) Low atmospheric temperature

(B) High degree of pollution

(C) High atmoshperic

(D) Absence of raw materials

---

CORRECT ANSWER: C

---

SOLUTION:

Life cannot originate from inorganic materials now because of high atmospheric oxygen.

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In forming the theory of evolution by natural selection, Darwin was greatly influenced by

- (A) Mutations of Hugo de Vries
  - (B) Malthus idea of population control
  - (C) Environmental factors
  - (D) Lamarck acquired characters
- 

CORRECT ANSWER: B

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Q-103 - 18244734

$$(p + q)^2 = p^2 + 2pq + q^2$$
$$= 1$$
represents an equation used in

- (A) population genetics

(B) Mendelian genetics

(C) Biometrics

(D) Molecular genetics

---

**CORRECT ANSWER: A**

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Q-104 - 18244757

Trilobites were evolved during which of the following period

(A) Salvian

(B) Cambrian

(C) Ordovician

(D) Pre-cambrian

---

**CORRECT ANSWER: B**

---

## SOLUTION:

Trilobites and brachipods were the most abundant animals evolved during the cambrian period. They become extinct in permian period.

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Q-105 - 18244778

Fossil contents of the alimentary canal are termed as

- (A) Casts
- (B) Coprolites
- (C) Impressions
- (D) Trails

---

CORRECT ANSWER: B

---

Q-106 - 18244628

Natural Selection Theory of Darwin is objected to, because it

- (A) Stress upon slow and small variations
- (B) Stress upon interspecific competition
- (C) Explains that natural calamities take a heavy annular toll of lives
- (D) Explains, adaptation of certain inherited characters

---

CORRECT ANSWER: A

Q-107 - 41938042

Who gave the theory of Genetic equilibrium ?

(A) Lamarck

(B) Hugo de Vries

(C) Hary-Weinberg

(D) Darwin

---

CORRECT ANSWER: 3

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Q-108 - 18244400

A population will not exist in Hardly-Weinberg equilibrium if

(A) There are no mutations

(B) There is no migration

(C) The population is large

(D) Individuals mate selectively

---

CORRECT ANSWER: D

---

SOLUTION:

Hardy Weinberg equilibrium is applicable for randomly mating populations only.

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Q-109 - 18244758

Which one of the following evidences does not favour the Lamarckian concept of inheritance of acquired characters

- (A) Melanization in peppered moth in industrial areas
  - (B) Presence of webbed toes in aquatic birds
  - (C) Lack of pigment in cave-dwelling animals
  - (D) Absence of limbs in snakes
-

CORRECT ANSWER: C

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Q-110 - 18244790

Interspecific hybridization in the mating of

- (A) More closely related individuals within same breed for 4-6 generations
- (B) Animals within same breed without having common ancestors
- (C) Two different related species
- (D) Superior males and females of different breeds

---

CORRECT ANSWER: C

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How many years are considered in one minute in Geological clock

- (A) 52,000 years
  - (B) 1,87,500,000 years
  - (C) 3,25,000 years
  - (D) 1,90,000 years
- 

**CORRECT ANSWER: D**

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Which one of the following statements is correct regarding evolution of mankind

(A) Neanderthal man and Cro-Magnon man were living at the same time

(B) Australopithecus was living in Australia

(C) Homo erectus is preceded by Homo habilis

(D) None of these

---

CORRECT ANSWER: C

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Q-113 - 18244772

Which of the following sets represents the correct sequence of the evolution of man

(A) Kenyapithecus-Australopithecus- Homo habilis- Pithecanthropus-Homo sapiens

(B) Kenyapithecus-Australopithecus- Pithecanthropus-

Homo habilis- -Homo sapiens

(C) Australopithecus - Kenyapithecus-Homo habilis-

Pithecanthropus-Homo sapiens

(D) Pithecanthropus-Australopithecus, Kenyapithecus-

Homo habilis-Homo sapiens

---

CORRECT ANSWER: A

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Q-114 - 18244761

Adaptation of a species is its

(A) Ecdysis

(B) Metamorphosis

(C) Acquired character

(D) Hereditary character

---

CORRECT ANSWER: D

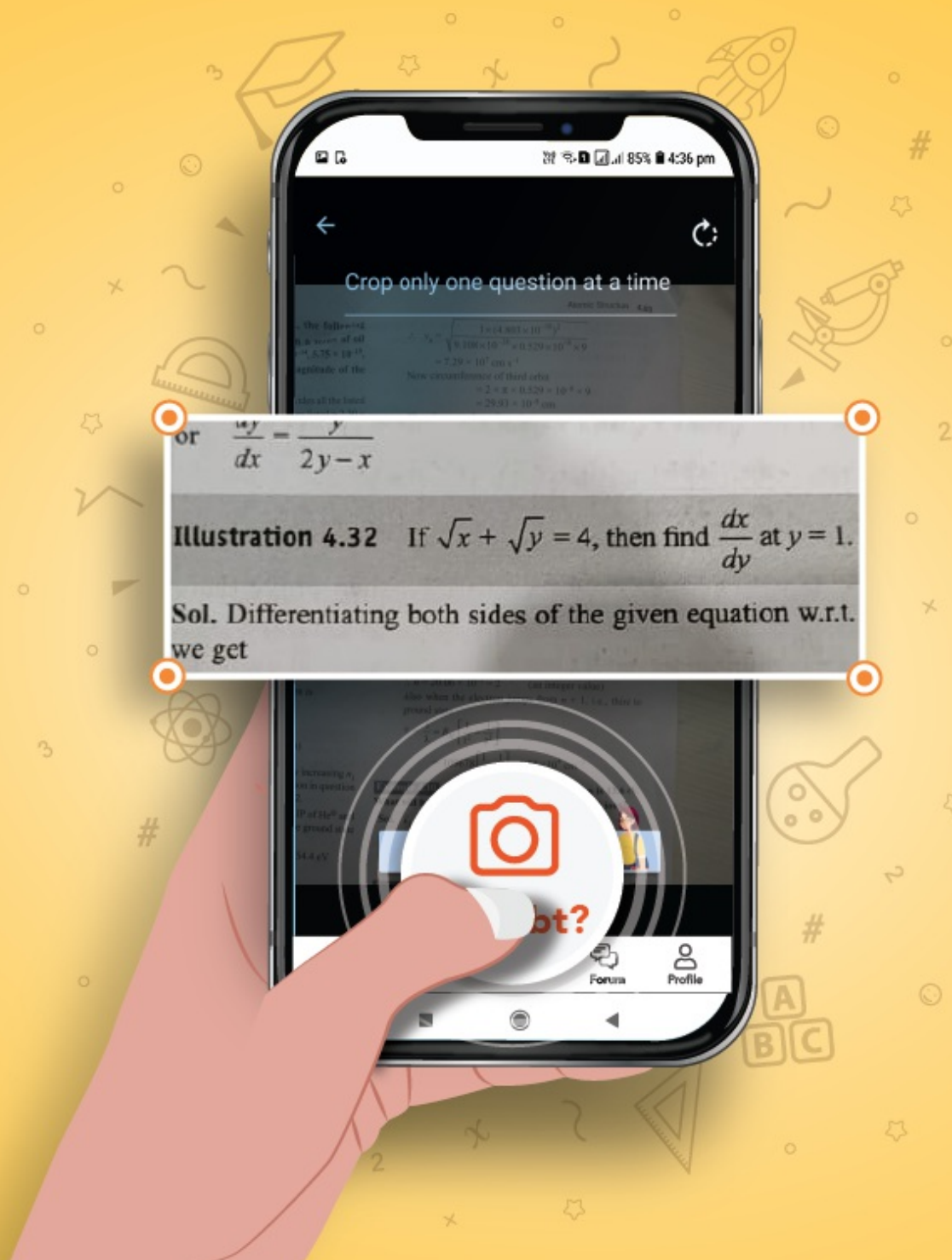
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