



### **BIOLOGY**

### **BOOKS - UNITED BOOK HOUSE**

### **EVOLUTION AND ADAPTATION**



1. The term 'Evolution' was coined by-

A. Oparin

B. Halden

C. Spencer

D. Stanley

#### Answer:

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2. When did the earth was formed-

A. 20 billion years ago

B. 4.5 billion years ago

#### C. 4.5 million years ago

D. 3 billion years ago

#### **Answer:**



#### 3. Who wrote 'Origin of Life'-

A. Oparin

B. Halden

C. Spencer

#### D. L. Miller

#### Answer:

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**4.** Theory of Biogenesis means-

A. origin of life from pre-existing life

B. living organisms arise from non living

material

C. living organisms came from other planet



supernatural power or God.

#### **Answer:**

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### 5. Spontaneous generation of micro

organisms was disproved by-

A. Charle Darwin

B. Oparin

C. Francesco Redi and also Louis Rasteur

D. Virchow

#### Answer:

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**6.** The earth like other planet was formed from-

A. pre-existing planet

B. clouds of dust and gas

C. aggregate of meteors

D. nuclear fusion

#### Answer:



# **7.** The initial atmosphere of earth was composed moslty of-

A.  $N_2$ 

#### $\mathsf{B}.\,O_2$

 $\mathsf{C}.\,H_2$ 

 $\mathsf{D.}\,H_2O$ 

#### **Answer:**



8. The fossil of World's oldest cell-

A. coacervates

B. stromatolites

C. microspheres

#### D. protenoid

#### Answer:

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#### 9. Stromatolites are-

A. fossilized photosynthetic bacteria

B. Fungi

- C. Animal colony
- D. Newly formed stone





## **10.** The agreed concept on the development of

first cell on earth-

A. on other planets

B. in rocks

C. in soil

D. in sea

#### Answer:



**11.** The importance feature of the primitive earth was the absence of-

A. oxygen gas

B. hydrogen gas

C. nitrogen gas

D. carbondioxide gas





12. Evolution means-

A. reproductive success of individuals in a

population

B. changes in phenotype over time

C. capacity to cope with changes in the

environment

D. a change in the frequency of genetically

determined characteristics in a

population over time

Answer:

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**13.** Solution of nucleic acid, polypeptides and

polysaccharides assembled into droplets are-

A. microspere

B. protobiont

C. coacervates

D. liposome

#### Answer:

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14. Protenoids are-

A. abiotically produced polypeptides

B. biologically produced polypeptides

C. simpel amino acid

D. compound of sugar and amino acid

#### Answer:

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15. Lamarck wrote-

A. Origin of species

B. Philosophei zoologique

C. Races for struggle for existence

D. Concept of biology

#### Answer:

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#### 16. Natural Selection was proposed by-

A. Lamarck

B. Weisman

C. Darwin

D. Hougo-de-vries





## **17.** Who proposed the law of use and disuse of organ?

A. Lamarck

B. Weisman

C. Darwin

D. Hougo-de-vries

#### **Answer:**



## **18.** Who first used the term "Struggle for existence" ?

A. Lamarck

B. Weisman

C. Darwin

D. Hougo-de-vries





#### 19. The earliest know ancestor of horse is-

A. Equus

- B. Mesohippus
- C. Eohippus
- D. Merichippus





20. Fossils are mostly found in -

A. lava flow

B. sedimentary rock

C. red soil

D. granite

**Answer:** 

**21.** Lamarck's concept that certain body pairs

become more complex because of-

A. reproductive fitness

B. God's creation

C. they are used more extensively than

other parts

D. inheritance of character

Answer:

**22.** Lamarck's concept that the giraffe has long neck because-

A. short-necked were eliminated by

catastrophes

B. its ancestors stretched their necks to

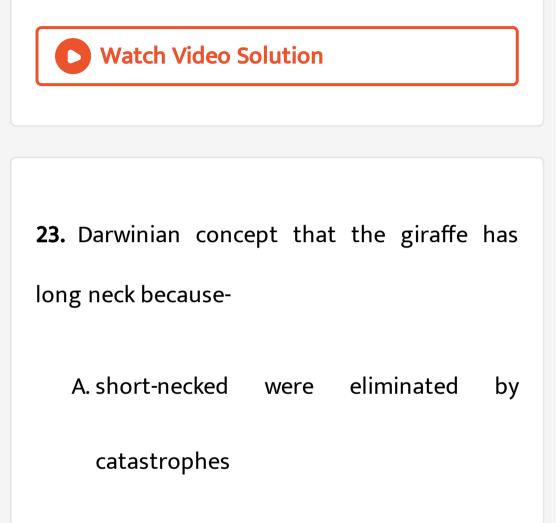
get food

C. creator's design

D. ancestral giraffe with slight longer necks

got more food and left more fit offspring

#### Answer:



B. its ancestors stretched their neks to get

food

C. creator's design

D. ancestral giraffe with slight longer necks

got more food and left more fit offspring

Answer:

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24. "Ontogeny repeats phylogeny" was proposed by-

A. Lamarck

B. Haeckel

C. Aristotle

D. Darwin

Answer:

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25. Which one is not a vestigial organ of man-

A. coccys

B. appendix

#### C. nictitatig membrane

D.  $2^{nd}$  molar teeth

#### Answer:



#### 26. The flipper of whale and the wings of birds

are-

A. Analogous orgn

B. Homologous organ

C. Vestigial organ

D. Replaced organ

#### Answer:



27. The adaptive feature which is not found in

'sundari' plant is-

A. pneumatophore

B. fruit with seed

C. viviparous germination

D. leaves with thick cuticle

#### Answer:



#### 28. "Sunken stomata" is present in-

A. Cactus

B. Lotus

C. Sundari

D. Pea

#### Answer:

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## **29.** The Organ absent in Pigeon to aid in flight is-

A. Left ovary

B. Gall bladder

C. lung

D. Right kidney

#### Answer:

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30. Explain how the structural changes of fish

heart to mammalia heart support evolution?

31. Point out two differences "Homologous

organ" and "Analogous organ".

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32. What is variation? How do variations help

in the origin of species in evolution?

33. Describe the different steps of chemical

evolution in a short manner.

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34. Describe different aspects of 'Origin of new

species' by means of "Natural selection".

**35.** What do you understand by 'Homologous Organ'? How do the features of internal structures of the forelimbs of different vertebrate animals support the idea of evolution?

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**36.** Explain the 'Law of Use and Disuse' and 'Inheritance of Acquired Character' as proposed by Lamarck. What is variation?





37. What is variation? How do variations help

in the origin of species in evolution?

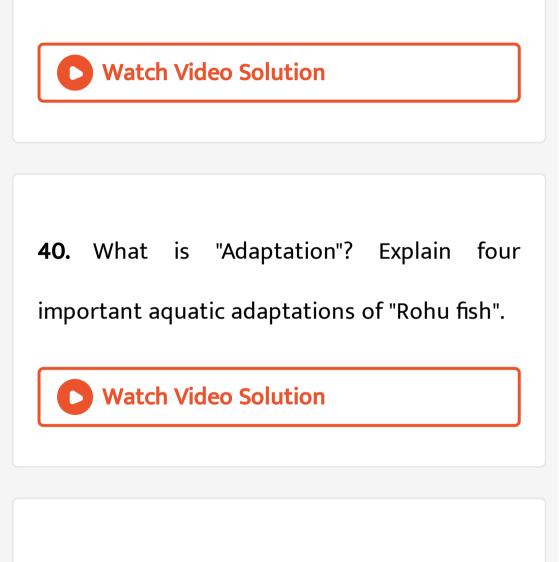


38. What is Mutation? Give three vestigeal

organ in man.

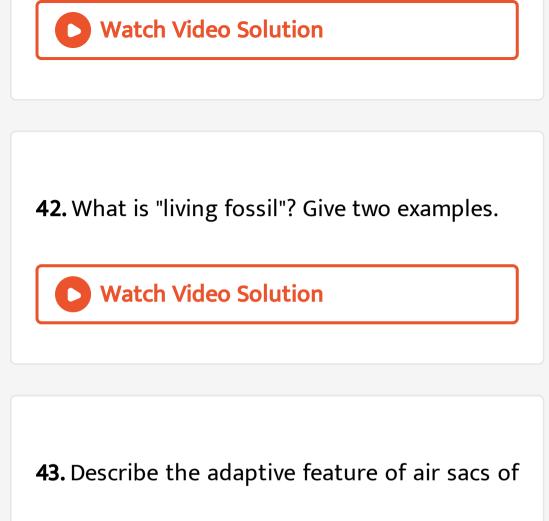
39. What is venous heart? Explain 'Biogenetic

law' in short manner.



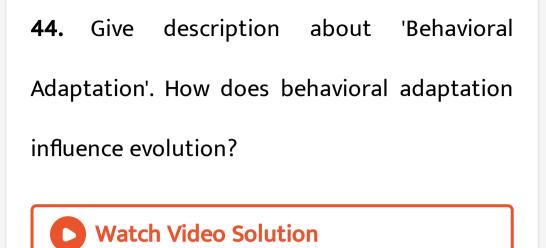
**41.** What is phyloclade? Name three adaptive

features for flight in Pigeon.



pigeon? How Camel's ability to withstand

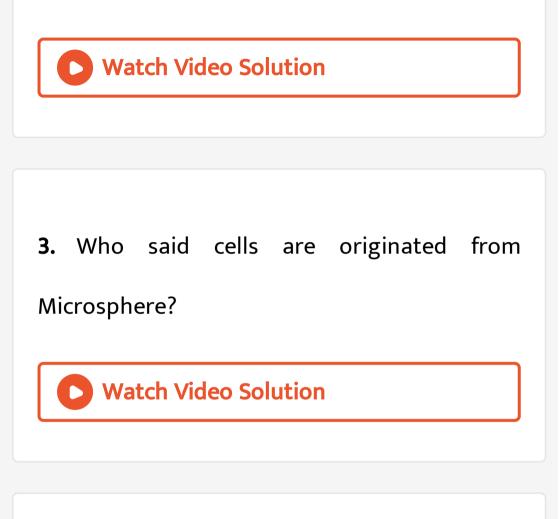
extreme water loss?



#### Example

1. Evolution means-

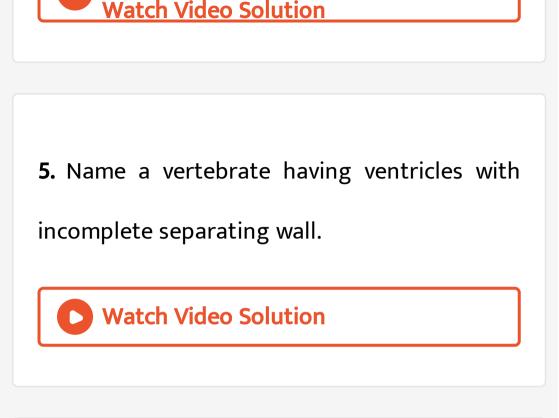
2. Who said chemical evolution?



4. Given an example of living fossil in animal

kingdom.





6. Write the name of an organ of an animal

which is homologous to bird's wing.

7. Who proposed the idea of 'Inheritance of

Acquired characters'?

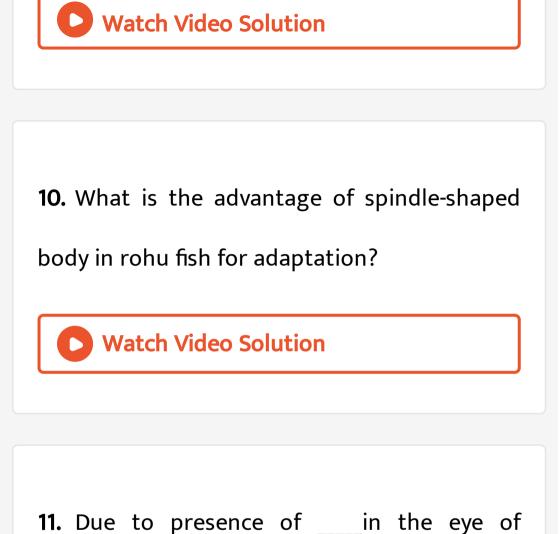
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8. Give the name of the famous book of Darwin

regarding evolution?

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9. Where venous heart is found?



pigeon, the vision becomes very sharp.

#### **12.** What is adaptation?

