



# **BIOLOGY**

## **BOOKS - DINESH PUBLICATION**

### **ENGLISH**

#### **EVIDENCES OF EVOLUTION**

##### **Multiple Choice Questions**

**1. The term evolution in biology means that**

A. Fossils are old

B. Living things constantly change

C. Life began in sea

D. Man descended from apes

**Answer: B**



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**2. Haekel's theory of recapitulation (Biogenetic law ) means that**

- A. Life history of an organism reflects its evolutionary history.
- B. All organisms apart as an egg.
- C. Progency resembles with parents.
- D. Lost body parts are regenerated.

**Answer: A**



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3. Connecting link between chordates and non-chordates is

A. Peripatus

B. Balanoglossus

C. Sphenodon

D. Tachyglossus.

**Answer: B**



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4. In which period of paleozoic era first vertebrate appeared.

A. Ordovician

B. Devonian

C. Silurian

D. Mississippian

**Answer: A**



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5. Which animal dominated in paleozoic era

A. Reptiles

B. Fishes

C. Birds

D. Mammals

**Answer: B**



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**6. Fossilization occurs where**

A. Organisms are buried and preserved by natural processes.

B. Animals are destroyed by environment

C. Animals are destroyed by scavengers.

D. Animals are buried by natural processes.

**Answer: A**



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7. The greatest evolutionary change enabling the land vertebrates to be completely free from water, was the development of

A. Four eggs

B. Lungs

C. Shelled eggs and internal fertilization

D. Four chambered heart.

**Answer: C**



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8. [A]: Jurassic period is considered the age of reptiles.

[R]: Reptiles dominated during this Jurassic period

A. Fishes

B. Marine life

C. Protists

D. Amphibians.

**Answer: C**



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9. Age of man' in geology is :

A. Proterozoic

B. Mesozoic

C. Coenozoic

D. Psychozoic

**Answer: D**



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10. Coenozoic era is known as

- A. Age of Amphibia and lycopods
- B. Age of Marine and gymnosperms
- C. Age of reptile sand gymnosperms
- D. Age of Mammals and Modern flora.

**Answer: D**



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**11.** The extreme specialization and extinction of great reptiles occurred in :

A. Permian

B. Triassic

C. Jurassic

D. Cretaceous

**Answer: D**



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12. A fossil is a

- A. Naturally preserved remains or traces of animals or plants
- B. Dead animal of the past
- C. Organic relic of the past
- D. Stuffed animal.

**Answer: C**



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**13.** The feature which enabled reptiles to dominate the land fauna for 100 million years, was

- A. Large size
- B. Heavy armour
- C. Large teeth
- D. Large eggs.

**Answer: B**



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14. The epoch of man in geological period is

A. Pliocene

B. Oligocene

C. Miocene

D. Pleistocene.

**Answer: D**



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**15. Fossils are dated by :**

A. Stratigraphic position

B. Amount of calcium residue

C. Association with other animals

D. Radio-active carbon from

**Answer: D**



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**16.** Prototherians have evolved from

A. Reptiles

B. Birds

C. Eutherians

D. Amphibians.

**Answer: A**



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17. Evolution is best defined as

A. Inheritance of acquired characters.

B. Descent by modification.

C. Spontaneous generation

D. Struggle for existence.

**Answer: B**



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**18.** As evident from fossil records which era has no life ?

A. Azoic

B. Proterozoic

C. Paleozoic

D. Coenozoic.

**Answer: A**



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19. A living connective link which provides evidence for organic evolution

A. Archeopterys between reptiles and mammals.

B. Lund fish between pisces and reptiles

C. Duck bill Platypus between reptiles and mammals.

D. Sphenondon between reptiles and birds.

**Answer: C**



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20. During the days of Dinosaurs, mammals had

- A. Already evolved
- B. A size of rats and mice
- C. Both A and B
- D. Not yet evolved.

**Answer: C**



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21. Vestigial organ of python is :

A. Nose

B. Scales

C. Teeth

D. Hind limbs.

**Answer: D**



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22. 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. Convergence

D. Divergence.

**Answer: D**



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23. Birds and mammals in geological development of earth arose in period

A. Permian

B. Carboniferous

C. Jurassic

D. Oligocene and Eocene.

**Answer: C**



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**24.** Homologous organs are :

- A. Same origin but different functions
- B. Different origin but same functions.
- C. Same origin and same functions.
- D. Different origin and different functions.

**Answer: A**



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25. Which of the following is vestigial organ

A. Wisdom tooth

B. Nails

C. Scalp hair

D. All the above

**Answer: A**



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26. Appearance of teeth in the embryos of birds is an example of

- A. Ontogeny repeats phylogeny
- B. Evolution has taken place
- C. Birds have evolved from reptiles
- D. All the above.

**Answer: D**



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27. Father of concept of evolution is

A. Linnaeus

B. Lamarck

C. Darwin

D. Buffon

**Answer: D**



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28. Which is a connecting link

A. Peripatus

B. Echinda

C. Proterospongia

D. All of the above

**Answer: D**



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**29. Which of the following is a living fossil?**

A. Sphenodon

B. Limulus

C. Peripatus

D. All of the above

**Answer: D**



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**30.** Blood precipitation test was proposed by

A. (a) Wallace

B. (b) Nuttal

C. (c) Bateson

D. (d) Needham

**Answer: B**



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**31. Blood Precipitation test are used in**

A. Blood grouping

B. Antigen-antibody reaction

C. Animal relations

## D. Immunity

**Answer: C**



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**32.** The dating of rocks is done by calculating the ratio between

A. (a) Uranium-lead

B. (b) Potassium-argon

C. (c) Rubidium-strontium



D. (d) All the above

**Answer: D**



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**33.** Which one of the following are analogous structures?

A. Wings of butterfly, sparrow and bat

B. Hind legs of horse, grass-hopper and bat

C. Hands of man, monkey and kangaroo

D. Mandibles of cockroach, mosquito and boney bee.

**Answer: A**



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**34. Dinosaurs are**

A. extinct amphibians

B. Extinct reptiles

C. Primitive mammals

D. Living reptiles

**Answer: B**



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**35.** Flippers of seal are

A. Fins

B. Skins outgrowth/webs

C. Fore limbs

D. Hind limbs.

**Answer: C**



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**36. Non-functional wings occur in**

- A. Emu, Owl and Dodo
- B. Ostrich, Kiwi and Stork
- C. Kiwi, Emu and Ostrich
- D. Rhea, Eagle and Cassowary

**Answer: C**



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37. Which of the following would be easily fossilized

A. Heart

B. Tooth

C. Skin

D. Liver.

**Answer: B**



**38.** Seedling of Acacia have

- A. Simple leaves
- B. Compound leaves
- C. Stipular spines
- D. Both B and C

**Answer: A**



39. Saplings of oaks of Northeastern USA possess

- A. Deciduous leaves
- B. Evergreen leaves
- C. Highly dissected leaves
- D. Axillary thorns

**Answer: B**



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40. Who is called father of modern embryology

A. Ernst Haeckel

B. Aristotle

C. Von Baer

D. Dollo

**Answer: C**



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**41.** Vestigial organ present in Greenland Whale is

- A. Fore limbs
- B. Pelvic girdle
- C. Hind limbs
- D. Both B and C

**Answer: D**



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42. Pistillode occurs in

- A. Male flowers of Cucurbits
- B. Female Flowers of cucurbits
- C. Bisexual flowers of Salvia
- D. Disc florets of Sunflower.

**Answer: A**



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**43.** Who observed that embryos never pass through adult stages of their ancestors

A. Von Baer

B. Charles Darwin

C. Ernst Haeckel

D. Richard Owen

**Answer: A**



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44. Which are vestigial in humans?

- A. Tail vertebrae
- B. Auricular muscles
- C. Scalp muscles
- D. All the above

**Answer: D**



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45. Nictitating membrane is vestigial in

A. Frog

B. Rabbit

C. Human

D. All the above

**Answer: C**



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**46.** Flippers of Panguin and Dolphin are considered analogous through they are modified forelimbs because

- A. Absence of certain bones
- B. Development from different lineages
- C. Structural difference
- D. Functional difference.

**Answer: B**



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**47.** An example of analogous organs is

- A. Tubers of Potato and Sweet Potato

B. Tubers of Dahlia and Sweet Potato

C. Tubers of Potato and Jerusalem

Artichoke

D. All the above

**Answer: A**



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**48.** In land animals blood vascular system has

A. Single circulation

B. Venous heart

C. Arterial heart

D. Arteriovenous heart

**Answer: D**



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**49.** In absolute dating, age of the rock/fossil is determined by

A. Depth of rock



B. Exposure of rock

C. Decay of radio isotope

D. Rate of surface erosion of rock.

**Answer: C**



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**50.** Geological time scale was first developed

by

A. Leonardo da Vinci

B. Georges Cuvier

C. Giovanni Avadunia

D. Boltwood.

**Answer: C**



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**51.** When did all the major subdivision of vascular plants arose on earth

A. 425 million years in silurian

B. 345 million years in carboniferous

C. 445 million years in Ordovician

D. 540 million years in carboniferous

**Answer: B**



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**52.** The major taxonomic groups of vascular plants are distinguished by

A. Position of sporangia

B. Types of leaves

C. Types of vascular strands

D. All the above

**Answer: A**



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**53.** In the most primitive psilopsids, sporangia are

A. In whorls

B. Terminal

C. At leaf bases

D. Over leaves

**Answer: B**



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**54.** Origin of seed in land plants occurred about

A. 160 million years ago

B. 240 million years ago

C. 285 million years ago

D. 345 million years ago

**Answer: D**



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**55.** Flowering plants arose about

A. 30 million years ago

B. 140 million years ago

C. 225 million years ago

D. 345 million years ago

**Answer: B**



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## **56. EVOLUTION OF HORSE**

A. Lengthening of limbs and increases in  
size

- B. Progressive loss of digits and lengthening of retained digits causing shifting of soft footed to padded, footed.
- C. Increased complexity of molars and molarisation of premolars.
- D. All the above.

**Answer: D**



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57. The homologous organs are

A. Tendrils of Cucurbita and thorns of Bougainvillea

B. Tendrils of Pea and thorns of Bougainvillea

C. Phylloclades of Opuntia and phyllodes of Acacia

D. Spines of Acacia and tendrils of Passiflora.

**Answer: A**



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**58.** Pouched mammals attained diversity in

A. New Zealand

B. South Africa

C. Australia

D. South America

**Answer: C**



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59. Development of similar habits in pouched and placental mammals found in similar habitats is called

- A. Divergent evolution
- B. Convergent evolutions
- C. Adaptive radiation
- D. Macroevolution

**Answer: B**



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60. The name Galapagos islands has been given on the basis of occurrence of

A. Black cooled lava

B. Giant Tortoises

C. Giant igunnas

D. All the above

**Answer: B**



61. Which types of birds are absent on Galapagos islands when they were surveyed by Darwin

- A. Warblers and wood peckers
- B. Carnivores
- C. Cactus feeding
- D. Seed eating.

**Answer: A**



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62. Concept of ladder of nature (Scala Naturae) was developed by

- A. Empedocles
- B. Plato
- C. Aristotle
- D. Erasmus Darwin

**Answer: C**



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63. Scala Naturae is also called

- A. Historia Animals
- B. Great chain of Beings
- C. De partibus Animalium
- D. Generations Animalium

**Answer: B**



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**64.** The term Darwin's finches was given to Galapagos finches by

A. Huxley

B. Spencer

C. Wallace

D. Lack.

**Answer: D**



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65. Archaeopteryx is considered as a connecting link between reptiles and birds. Justify the statement by giving two characters of each.

A. Archaeopterys

B. Platypus

C. Java Ape man

D. Whale.

**Answer: A**



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66. Correct order is

A. Palaeozoic → Archaeozoic →  
Coenozoic

B. Archaeozoic → Palaeozoic →  
Proterozoic

C. Palaeozoic → Mesozoic → Coenozoic

D. Mesozoic → Archaeozoic →  
Proterozoic.

**Answer: C**



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**67. Homologous organs are**

A. Dissimilar origin and dissimilar structures

B. Dissimilar origin but similar functions.

C. Similar origin with similar or dissimilar functions.

D. Similar origin with dissimilar functions.

**Answer: C**



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**68.** Process of evolution is

A. Discontinuous

B. Discontinuous in the past but continuous presently

C. Continuous in the past but discontinuous

presently

D. Continuous

**Answer: D**



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**69.** Golden Age of Dinosaurs / Age of reptiles

was

A. Mesozoic

B. Coenozoic

C. Palaeozoic

D. Psychozoic

**Answer: A**



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**70. Parallelism is**

A. Adaptive divergence

B. Adaptive divergence of widely separated species.

C. Adaptive convergence of widely different species.

D. Adaptive convergence of closely related groups.

**Answer: D**



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71. Resemblance between widely different groups due to a common adaptation is known as

- A. Parallel evolution
- B. Divergence evolution
- C. Convergent evolution
- D. Retrogressive evolution.

**Answer: C**



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72. Which will be true in sedimentary rocks

A. Upper strata older and lower younger

B. Upper strats younger and lower older

C. There is no stratification

D. None of the above.

**Answer: B**



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**73.** The homologous organs are

A. Trails of bird, monkey and scorpion

B. Stings of honey bee, scorpion and fangs of snake.

C. Wings of butterfly, flying fish and bird

D. Paddle of whale, front legs of horse and arms of humans/legs of duck, hind limbs of pig, hind limbs of kangaroo.

**Answer: D**

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**74.** Analogous organs are :

- A. Different origin but similar functions.
- B. Common origin and common functions
- C. Different origin and different functions.
- D. Common origin but different functions.

**Answer: A**



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75. Homologous organs have

- A. Wings of Pigeon and Butterfly
- B. Wings of Pigeon and Housefly
- C. Wings of Pigeon and arms of Humans
- D. Wings of bat, housefly and Butterfly.

**Answer: C**



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76. Who was the first to explain recapitulation theory?

A. Wallace

B. Lamarck

C. Haeckel

D. Mendel

**Answer: C**



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77. Which one is not a vestigial structure in humans

- A. Epiglottis/Intestine
- B. Vermiform appendix
- C. Wisdom teeth
- D. Body of hair.

**Answer: D**



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78. Which of the following sets represents vestigial organs

A. Vermiform appendix, body hair and patella

B. Wisdom teeth, body hair and atlas vertebra

C. Ear muscles, cochlea and coccyx

D. Vermiform appendix, ear muscles and coccyx.

**Answer: D**



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**79.** Haekel's theory of recapitulation (Biogenetic law ) means that

- A. Ontogeny repeats phylogeny
- B. High rates of reproduction.
- C. Alternation of generations
- D. Inheritance of acquired characters.



**Answer: A**



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**80. Fossilisation is**

- A. Organisms destroyed by scavengers
- B. Organism eaten by predators
- C. Animals buried and preserved by nature process.
- D. Organisms destroyed by calamities.

**Answer: C**



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**81.** Archaeopterys is known as missing/connecting link because it is a fossil and has characters between

- A. Fishes and amphibians
- B. Birds and reptiles
- C. Reptiles and mammals
- D. Chordates and nonchordates.

**Answer: B**



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**82.** Which is a set of evidence of evolution

- A. Homologous and analogous organs
- B. Homologous and vestigial organs
- C. Analogous and vestigial organs
- D. All the above.

**Answer: D**



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**83.** Basic principles of embryonic development were stated by

A. Van Baer

B. Weismann

C. Haeckel

D. Morgan

**Answer: A**



84. Origin of first mammals occurred :

- A. 500 million yrs
- B. 220 million yrs
- C. 1600 million yrs
- D. Over 1600 million yrs ago.

**Answer: B**



**85.** Fossil reptile having mammalian traits was

:

A. Peripatus

B. Pelycosaurus

C. Tyrannasaurus

D. Archaeopterys

**Answer: B**



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**86.** Name the law that states 'Embryonic Development of an animal repeats the embryonic stages of ancestors'?

- A. Biogenetic law
- B. Anaximander's Law
- C. Florkins's Law
- D. Law of Segregation.

**Answer: A**



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**87.** Dinosaurs were dominant during

A. Devonian

B. Plesocene

C. Permian

D. Jurassic

**Answer: D**



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**88.** Analogous organs are



A. Wings of Bird and Butterfly

B. Wings of Bird and Bat

C. Limbs of Horse and Human

D. Teeth of human and Gorilla

**Answer: A**



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**89.** Which one is vestigial in humans

A. Extra-abdominal muscle

B. Body hair

C. Thumb

D. Conjunction

**Answer: B**



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**90.** Which animal has become extinct recently

?

A. Draco

B. Dinosaur

C. Mammoth

D. Pteridosperms

**Answer: C**



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**91. Dinosaurs disappeared during**

A. Jurassic

B. Triassic

C. Cretaceous

D. Permian

**Answer: C**



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**92. Age of mammals and birds is**

A. Mesozoic

B. Coenozoic

C. Archaeozoic

D. Palaeozoic.

**Answer: B**



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**93.** Fossil X is older than fossil Y because :

A. Fossil X was found in deeper sedimentation

B. Fossil Y was found in deeper sedimentation

C. Fossil Y has homologous and analogous organs of X

D. Fossil Y has some vestigial organs functional in X

**Answer: A**



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**94. Evolutionary convergence is development**

- A. Common set of characters in groups of different ancestry
- B. Dissimilar characters in closely groups
- C. Common set of characters in closely related groups.
- D. Random mating.

**Answer: A**



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95. Which one is vestigial in humans ?

A. Pinna muscles

B. Eye lids

C. Canine teeth

D. Nails.

**Answer: A**



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96. Biogenetic law was propounded by

A. Von Baer and Haeckel

B. Von Bear and Aristotle

C. Haeckel and Mendel

D. Mendel and Griffith

**Answer: A**



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97. Homologous organs have

A. Wings of insects and Bat.

B. Gills and Fish and lungs of Rabbit

C. Pectoral fins of Fish and fore limbs of  
Horse.

D. Wings of Grasshopper and Crow.

**Answer: C**



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**98.** Fossils indicate the evolution of

A. (a) Monkey

B. (b) Dinosaur

C. (c) Horse

D. (d) Man

**Answer: C**



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**99.** Which were dominant in mesozoic

A. Ferns

B. Mammals

C. Dinosaurs

D. Fishes

**Answer: C**



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**100.** Existence of Coal/Petroleum can be know  
from study of

A. Ecology

B. Economic Botany

C. Palaeobotany

D. Bacteriology

**Answer: C**



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**101.** The age of fossils can be estimated now by

A. Amount of calcium

B. Radioactive carbon contest

C. Association with mammals

D. Stratigraphic age.

**Answer: B**



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**102.** Which is not a vestigial part in humans ?

A. Tail vertebrate

B. Veriform Appendix

C. Muscles of pinnae

D. Malleus/Pinna

**Answer: D**



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**103.** The earliest fossil form in the phylogeny of horse is

A. Merychippus

B. Mesohippus

C. Eohippus

D. Equus.

**Answer: C**



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**104.** Which one provides direct and solid evidence in favour of organic evolution through ages ?

A. Atavism



B. Palaeontology/fossils

C. Vestigial organs

D. Galapagos island fauna

**Answer: B**



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**105.** The preserved fossil remains of Archaeopteryx show that

A. It was flying reptiles from Triassic

B. It was a flying reptile from Permian

C. Reptiles gave rise to birds during Permian

D. Reptiles gave rise to birds during Jurassic.

**Answer: D**



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**106.** Study of fossils is

A. Organic evolution

B. Palaeogeography

C. Palaeontology

D. Herpetology

**Answer: C**



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**107.** In human beings vestigial organs are

A. Wisdom tooth, coccyx, nail, eye lid and vermiform appendix

B. Wisdom tooth, coccyx, vermiform appendix, pancreas and elbow joint

C. Wisdom tooth, coccyx, vermiform appendix, nictitating membrane and auricular muscles

D. Coccyx, wisdom tooth, nail, auricular muscles.

**Answer: C**



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**108.** Famous palaeontologist/palaeobotanist of India was

A. P. Maheswari

B. S.R. Kashyap

C. B. Sahni

D. B.P. Pal

**Answer: C**



**109.** Two geographical regions separated by high mountains are

- A. Oriental and Australian
- B. Palaeartic and Oriental
- C. Nearctic and Palaeartic
- D. Neotropical and Ethiopian

**Answer: B**



**110.** The presence of gill slits, in the embryos of all vertebrates, supports the theory of

A. Organic evolution

B. Biogenesis

C. Metamorphosis

D. Recapitulation

**Answer: D**



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111. Wings of Mosquito, Bat and Bird show evolution called

A. Divergent evolution

B. Convergent

C. Atavism

D. Parallel.

**Answer: B**



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## 112. Basic principles of embryonic development

were stated by

A. Van Baer

B. Haeckel

C. Mendel

D. Darwin

**Answer: A**



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**113.** BirBal Sahni worked on :

A. Algae

B. Fossil plants

C. Angiosperms

D. Bryophytes

**Answer: B**



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**114.** Animals have shorter and smaller extremities in colder areas. It is

A. Allen's law

B. Cope's law

C. Bergmann's law

D. Dollo's law

**Answer: A**



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115. Archaeopteryx shows origin of

- A. Birds from reptiles
- B. Mammals from reptiles
- C. Reptiles from amphibians
- D. Birds from amphibians

**Answer: A**



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**116.** Organisms present at different places without any traces in between show

A. Speciation

B. Discontinuous distribution

C. Punctured equilibrium

D. Migration

**Answer: B**



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**117.** Mammals occur on land, air and water. It is

A. Convergent evolution

B. Microevolution

C. Adaptation

D. Adaptive radiation.

**Answer: D**



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**118.** A vestigial organ in man is

A. Mammary gland

B. Pelvic gland

C. Vermiform appendix

D. Sebaceous glands.

**Answer: C**



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**119.** The wings of an insect and a bat exhibit

A. Analogy

B. homology

C. Connecting link

D. Atavism

**Answer: A**



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**120.** Phylogeny is

A. Castles of flies

B. Development of an organ



C. Developmental history of race.

D. Evolutionary history

**Answer: D**



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**121.** Hand of man, wing of bat and flipper of seal represent :

A. Analogous organs

B. Vestigial organs

C. Homologous organs

D. Evolutionary organs.

**Answer: C**



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**122.** In general, in the developmental history of a mammalian heart, it is observed that it passes through a two-chambered fish-like heart and finally to four-chambered stage. To which

hypothesis can this above cited statement be approximated?

- A. Biogenetic law
- B. Hardy-Weinberg law
- C. Mendelism
- D. Lamarckism

**Answer: A**



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**123.** Existence of marsupials in Australia and New Zealand proves

- A. Continential drift
- B. Geological period
- C. New evolution
- D. Both A and B

**Answer: D**



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**124.** Evolution is

- A. Development of DNA from nucleotides
- B. Development of organisms through time
- C. Development of a cell from chemicals
- D. Cloning.

**Answer: B**



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**125.** Birbal Sahni Institute of Palaeobotany is situated in

A. Lucknow

B. Delhi

C. Calcutta

D. Jodhpur

**Answer: A**



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**126.** A connecting link between two phyla is

A. Archaeopterys- Aves and Mammalia

B. Amphioxus- Echinodermata and

Chordata

C. Peripatus- Annelida and Arthropoda

D. Ornithorhyncus - Aves and Reptilia.

**Answer: C**



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127. A vestigial organ in human is

A. Ear pinna

B. Nictitating membrane

C. Mammary glands in males

D. Knee bone.

**Answer: B**



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**128.** Which of the following eras, in geological time scale corresponds to the period when life had not originated upon the earth?

A. Palaeozoic

B. Archaeozoic

C. Azoic

D. Mesozoic

**Answer: C**



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**129.** Branch of botany dealing with external structure of plants is

A. Ecology

B. zoology

C. anatomy

D. morphology

**Answer: B**



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**130.** The wings of an insect and a bat exhibit

- A. Vestigial organs
- B. Exoskeletal structures
- C. Homologous organs
- D. Analogous organs.

**Answer: D**



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**131.** A vestigial tooth is

A. Incisor

B. Molar

C. Premolar

D. Canine

**Answer: D**



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**132.** Adaptive similarities in animals of the same habitat constitute

A. Adaptive radiations

B. Parallel evolutions

C. Convergent evolution

D. Divergent evolution

**Answer: C**



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**133.** Homologous organs exhibit :

A. Divergent evolution

B. Convergent evolution

C. Parallel evolution

D. Both B and C

**Answer: A**



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**134.** Fossils are studied by

A. Tracing evolutionary history of

organisms

B. Studying extinct organisms

C. Filling gaps in our study

D. Providing jobs to scientists

**Answer: B**



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**135.** Who was the first to explain recapitulation theory?

A. Mendel

B. Haeckel

C. Erasmus Darwin

D. Weismann

**Answer: B**



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**136.** Monkeys and some lower groups have certain blood groups which are

A. Identical to those of man



B. Identical to those of anthropod apes

C. Somewhat similar to white persons

D. Not identical to those of man.

**Answer: A**



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**137.** Organic evolution is change in

A. Single individual

B. A few members of population

C. Major portion of population

D. Entire populations.

**Answer: C**



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**138.** A bird with teeth is

A. Kiwi

B. Ostrich /king Vulture

C. Dodo

D. Archaeopterys.

**Answer: D**



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**139.** Heart is four chambered in

A. Amphibia

B. Fishes

C. Mammals

D. Reptiles

**Answer: C**



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**140.** Living organism with oldest history is :

- A. Dinosaur
- B. Archaeopterys
- C. Horse
- D. Man

**Answer: C**



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**141.** Homologous organs are

- A. Human eyes and Squid eyes
- B. Gills of fish and lungs of Man
- C. Hands of Man and wings of Bat
- D. Leaf of moss and frond of Fern.

**Answer: C**



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**142.** Coal has been mainly formed by

A. Bryophytes

B. Pteridophytes/pteridosperms

C. Angiosperms

D. Algae

**Answer: B**



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**143.** Darwin's finches provide an excellent evidence in favour of evolution. This evidence comes from the field of :

- A. Anatomy
- B. Morphology
- C. Biogeography
- D. All the above

**Answer: C**



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**144.** Which one is not vestigial in humans?

- A. Tail bone
- B. Ear muscle
- C. Wisdom teeth
- D. Finger nails.

**Answer: D**



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**145.** Vestigial pelvic girdle and bone remnants of hind limbs are characteristic of

A. Whale

B. Dolphin

C. Shark

D. Seal

**Answer: A**



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**146.** The statement ' Nothing in biology makes sense except in the light of evolution was given by

A. Dobzhansky

B. Darwin

C. Oparin

D. Hooker

**Answer: A**



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147. The sequence in evolution of horse was

A. Equus, Eohippus, mesohippus,

Merychippus

B. Eohippus, Mesohippus, Merychippus,

Equus

C. Mesohippus, Eohippus, Merychippus,

Equus

D. Merychippus, Eohippus, Equus,

Mesohippus

**Answer: B**



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**148.** Origin of life occurred in

A. Carboniferous

B. Cambrian

C. Pre-cambrian

D. Ordovician

**Answer: C**



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**149.** Evolution of a species or group can be studied through

- A. Fossils
- B. Carbon dating
- C. DNA analysis
- D. All the above

**Answer: A**



**150.** Phenomenon of organisms having similar structure with a similar origin is

- A. Mimicry
- B. Analogy
- C. Homology
- D. Both A and B

**Answer: C**



**151.** Homologous organs indicate

- A. Convergent evolution
- B. Parallel evolutions
- C. Natural evolution
- D. Common descent.

**Answer: D**



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**152.** The age of evolution of man is measured by

A. Electron microscope

B. Chemical reaction

C. Radioactive dating

D. Ultraviolet radiation.

**Answer: C**



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**153.** Modern birds rose in

A. Palaeozoic

B. Coenozoic

C. Mesozoic

D. Archaeozoic

**Answer: B**



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**154.** Tasmanian wolf is a marsupial while wolf is placental mammal. This shows

- A. Convergent evolution
- B. Divergent evolution
- C. Parallelism
- D. Inheritance of acquired characters.

**Answer: A**



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**155.** Ontogeny recapitulates phylogeny, this theory is called

A. Hardy Weinberg's law

B. Pauling law

C. Biogenetic law

D. Thomas law

**Answer: C**



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**156.** The Jurassic period belongs to the era :

A. Palaeozoic

B. Mesozoic

C. Coenozoic

D. Preterozoic

**Answer: B**



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157. The pioneers in the field of 'organic evolution' are

A. Darwin, Lamarck, Landsteiner and De Vries

B. Darwin, De Vries, Lamarck, Huxley

C. Lamarck, Landsteiner, Malthus, De Vries.

D. Lansteiner, De Vries, Malthus, Darwin

**Answer: B**



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**158.** The reason behind the occurrence of endemic species in South America and Australia is

A. Retrogressive evolution

B. Continential separations

C. These species have become extinct from other regions

D. Absence of terrestrial links between these places.

**Answer: B**



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**159.** Similarities in organism with different genotype indicates.

A. Convergent evolution

B. Divergent evolution

C. Microevolution

D. Macroevolution

**Answer: A**



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**160.** Half-life of  $(^{14}\text{C})$  is :

A. 50 years

B. 500 years

C. 5000 years

D.  $5 \times 10^5$  years

**Answer: C**





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**161.** Which of the following is not an atavistic character ?

- A. Tail in some babies
- B. Enlarged canines
- C. Six fingers
- D. Dense body hair.

**Answer: C**



**162.** Which are not homologous?

A. Fore arm of humans and fins of fishes

B. Wings of bat and insects

C. Fins of fishes and flippers of whales

D. Human fore arms, Bat's wings and flippers of whale.

**Answer: B**



**163.** Presence of two chambered heart and gills in tadpole is example of

A. Neo-Darwinism

B. Gause's law

C. Chargaff's law

D. Biogenetic law

**Answer: D**



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**164.** Presence of two chambered heart and gills in tadpole is example of

A. Radiation

B. Atavism

C. Mutation

D. Crossing over.

**Answer: B**



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**165.** New unit of evolution is called:

A. Population

B. Species

C. Individual

D. Subspecies.

**Answer: A**



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**166.** Possibility of occurrence of coal in an area is determined by study of

- A. Microfossils
- B. Ecology
- C. Economic botany
- D. Mining contents

**Answer: A**



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**167.** Darwin's finches occur in

A. Australia

B. Galapagos islands

C. Siberia

D. India.

**Answer: B**



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**168.** Coevolution does not occur in case of

A. Parasitism

B. Mutualism

C. both A and B

D. Commensalism

**Answer: D**



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**169.** Ancestral amphibians or early tetrapods evolved during



A. Carboniferous period

B. Cretaceous period

C. Jurassic period

D. Devonian period

**Answer: D**



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**170.** Evidences for evolution from fossils belong to the domain of

A. Biogeography

B. Embryology

C. Palaeontology

D. Anatomy

**Answer: C**



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**171. Dinosaurs were dominant during**

A. Jurassic

B. Cretaceous

C. Triassic

D. Palaeocene

**Answer: A**



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**172.** Which of the following is not correctly paired

A. Mesozoic- Age of mammals

B. Study of fossils- Palaeontology

C. Mutation theory - Hugo de Vries.

D. Origin of Species- Charles Darwin

**Answer: A**



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**173.** Study of plant fossils is

A. Paedology

B. Palynology

C. Palaeoinsectology

D. Palaeobotany

**Answer: D**



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**174.** Most interacting populations are :

A. Symbiotic

B. Mutualistic

C. Parasitic

D. Coevolved.

**Answer: D**



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**175.** Fossil bird having reptilian character evolved during which period ?

A. Jurassic

B. Triassic

C. Cretaceous

D. Permian

**Answer: A**



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**176.** Mesozoic era is the age of :

A. Fishes

B. Amphibians

C. Reptiles

D. Molluscs

**Answer: C**



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**177.** Continental drift explains

- A. Mass extinctions
- B. Distributions of fossils on earth
- C. Geographical upheavals
- D. All the above

**Answer: D**





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**178.** Reptilian feature of Archaeopteryx :

A. U-shaped furcula

B. Beak

C. Abdominal ribs

D. Feathers

**Answer: C**



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**179.** Archaeopteryx is connecting link between

- A. Fishes and amphibians
- B. Amphibians and reptiles
- C. Reptiles and birds.
- D.

**Answer: D**



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**180.** Which is not a vestigial organ in man?

A. Tail vertebrae

B. Nails

C. Nictitating membrane

D. Vermiform appendix

**Answer: B**



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**181.** Development of unrelated groups of animals along parallel lines in adaptation to a similar environment is called

A. Adaptive convergence

B. adaptive radiation

C. Adaptive divergence

D. Adaptive induction.

**Answer: A**



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**182.** Which of the followins is vestigial in humans

A. Mammaary glands in males

B. Knee bones

C. Nictitating membrane

D. Ear pinna

**Answer: C**



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**183.** which is a pair of vestigial organs?

A. Coccyx and intercostal muscles.

B. Coccyx and auricular muscles.

C. Facial hairs in ladies.

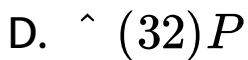
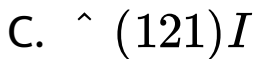
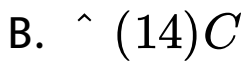
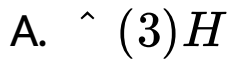
D. Coccyx and premolars.

**Answer: B**



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**184.** Which one is used for dating archaeological specimens like bones, shells and wood?



**Answer: B**



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**185.** Which is sequenced during study of phylogeny?

A. mRNA

B. rRNA

C. tRNA

D. DNA

**Answer: D**



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**186.** Convergent evolution is illustrated by

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

**Answer: D**



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**187.** Which one of the following correctly describes the homologous structures?

A. Organs with anatomical similarities but performing different functions

B. Organs with anatomical dissimilarities but performing same functions.

C. Organs appearing only in embryonic stage and disappearing later in the adult.

D.

**Answer: A**



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**188.** The early stage human embryo distinctly possesses

A. Gills

B. Gill slits

C. External ear (pinna)

D. Eye brows

**Answer: B**



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**189.** Mesozoic era was dominated by

A. Birds

B. Fishes

C. Reptiles

D. Mammals.

**Answer: C**



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**190.** Law of embryonic development was proposed by

A. Darwin

B. Von Baer

C. Haeckel

D. Mendel

**Answer: B**



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**191.** Wings of bird and bat are

- A. Homologous with no analogy
- B. Analogous with no homology
- C. Neither homologous nor analogous
- D. Both homologous and analogous

**Answer: D**



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**192.** Which one is not a vestigial organ?

- A. Flipper of Seal
- B. Coccyx of man
- C. Pelvic of python
- D. Wing of kiwi.

**Answer: A**



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**193.** Organs related through common descent but now functionally different are

- A. Analogous organs
- B. Homologous organs
- C. Divergent organs
- D. Parallel organs.

**Answer: B**



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**194.** Which one is incorrect.

A. Wings of insects and birds are analogous

B. Wings of bat and birds are homologous

C. wings of insects and bat are analogous

D. Wings of insects and birds are homologous.

**Answer: D**



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**195.** Age of fossils in the past was generally determined by radio-carbon method and other methods involving radioactive elements found in the rocks. More precise methods, which were used recently and led to the revision of the evolutionary periods for different groups of organisms, include

A. Study of carbohydrates and protein in fossils.

B. Study of conditions of fossilisation

C. Electron spin resonance and fossils DNA

D. Presence of carbohydrates and protien in  
rocks.

**Answer: C**



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**196.** Flippers of seal are modified :

A. Hind limbs

B. Fore limbs

C. Fins

D. Gills

**Answer: B**



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**197.** Sweet potato and potato are example of :

A. Homologous

B. Analogous

C. Recent introductions

D. Two species of the same genus.

**Answer: B**



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**198.** Assertion: Natural selection is the outcome of differences in survival and reproduction among individuals that show variation in one or more traits.

Reason: Adaptive form of a given trait tend to

become more common, less adaptive ones become less common or disappear.

A. A

B. B

C. C

D. D

**Answer: A**



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**199.** The organs which perform different functions but have the same basic structure are known as :

A. Homologous organs

B. Analogous organs

C. Metalogous organs

D. Vestigial organs.

**Answer: B**



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200. The classical example of adaptive radiation in development of new species is :

A. Marsupials of Australia

B. Darwin's finches

C. Giant Tortoise

D. All the above

**Answer: D**



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201. Bieng all mammals, whale, dolphin, bat, monkey and horse have some important common characters, but they also shos conspecuous difference. This is due to the phenomemon of

- A. Divergence
- B. Convergence
- C. Genetic drift
- D. Normalisation

**Answer: A**





**202.** Below mentioned pairs of structures is considered to be homologous :

- A. Wings of Grasshopper and forelimbs of flying Squirrel
- B. Tentacles of Hydra and arms of Starfish
- C. Forelimbs of a Bat and forelegs of a Horse.
- D. Wings of bird and wings of Moth.

**Answer: C**



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**203.** According to Darwinism fossil of organisms found in south America resembles most, the fossil of

Or

Most primitive living mammals which provided an evidence or organic evolution from geographical distribution are found in

A. North America

B. Africa

C. Australia

D. Both B and C

**Answer: D**



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**204.** The biogenetic law of Haeckel is

A. *Omnis vivum e vivum*

B. Omnis cellula e cellula

C. Ontogeny repeats phylogeny

D. Phylogeny repeats ontogeny

**Answer: C**



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**205.** Which of the following is the relatively most accurate method for dating of fossils.

A. Radiocarbon method

B. Potassium- argon method

C. Electron spin - resonance method

D. Uranium - lead method.

**Answer: C**



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**206.** Dinosaurs were present during the

A. Palaeozoic era

B. Coenozoic era

C. Mesozoic era

D. Precambrian era.

**Answer: C**



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**207.** Which is correct?

A. 99 % of existed species are extinct

B. 65 % of existed species are extinct

C. 40 % of existed species are extinct

D. 30 % of existed species are extinct.

**Answer: A**



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**208.** Identify the correct arrangement of periods of palaeozoic era in ascending order in geological time scale.

A. Cambrian → Devonian → Ordovician  
→ Silurian → Carboniferous →



Permian

B. Cambrian → Ordovician → Silurian  
→ Devonian → Carboniferous →

Permian

C. Cambrian → Ordovician → Devonian  
→ Silurian → Carboniferous →

Permian.

D. Silurian → Devonian → Cambrian  
→ Ordovician → Permian. →

Carboniferous

**Answer: B**



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**209.** An important evidence in favour of organic evolution is the occurrence of

- A. Homologous and analogous organs
- B. Homologous and vestigial organs
- C. Analogous and vestigial organs
- D. Homologous organs only.

**Answer: A**



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**210.** Jurassic period of the mesozoic era is characterized by

A. Flowering plants and first dinosaurs appear

B. Gymnosperms are dominant plants and first birds appear

C. Radiation of reptiles and angiosperms

appear

D. Dinosaurs become extinct and

angiosperms appear.

**Answer: B**



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**211.** Evolutionary history of an organism is

known as-

A. Ontogeny

B. Phylogeny

C. Ancestry

D. Palaeontology

**Answer: B**



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**212.** Aristotle's lantern is connected with

A. Inanimate matter → Lower plants →

Higher plants → Zoophyta →

Entoma → Ostracoderma → Malacia

→ Malacostraca → Fish →

Oviparous quadrupeds → Cetacea →

Birds → Viviparous quadrupeds →

Humans

B. Inanimate matter → Lower plants →

Higher plants → Zoophyta → Entoma

→ Malacia → Malacostraca →

Ostracoderma Fish → Oviparous

quadrupeds Cetacea → Birds →

Viviparous quadrupeds → Humans

C. Inanimate matter → Lower plants →

Higher plants → Zoophyta →

Malacia → Entoma → Malacostraca

→ Ostracoderma → Fish →

Oviparous quadrupeds → Cetacea →

Birds → Viviparous quadrupeds →

Humans

D. Inanimate matter → Lower plants →  
Higher plants → Zoophyta →  
Entoma → Ostracoderma →  
Malacostraca → Malacia → Fish →  
Cetacea → Oviparous quadrupeds →  
Birds → Viviparous quadrupeds →  
Humans

**Answer: D**



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**213.** Major radiation of mammals, birds and pollinating insects took place in which epoch?

A. Oligocene

B. Palaeocene

C. Pliocene

D. Eocene

**Answer: B**



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214. Which is correct

A. Wings of birds and insects are homologous

B. Archaeopteryx lithographia is missing link between birds and mammals

C. Paired fins of fish and flippers of whale are analogous

D. Caecum and appendix in Rabbit and man are analogous.

**Answer: C**



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215. First mammal occurred in which eral period?

- A. Permian.....Palaezoic
- B. Triassic.....Mesozoic
- C. Tertoary.....Coenozoic
- D. None of these.

**Answer: B**



**216.** Most of the fossils occur in rocks

- A. Sedimentary
- B. Igneous
- C. metamorphic
- D. none of the above

**Answer: A**



217. Duck billed platypus is a connecting link between

- A. Echinodermata and chordata
- B. Arthropoda and mollusca
- C. Reptilia and mammalia
- D. Reptilia and aves.

**Answer: C**



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**218.** Plants and animals of Galapagos islands resemble most closely to plants and animals of

- A. Noth Africa
- B. South Africa
- C. North America
- D. South America

**Answer: D**



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**219.** Fossil found in Mandla district of MP is

- A. 260 million years old
- B. 100 million years old
- C. 50 million years old
- D. 20 million old.

**Answer: C**



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**220.** Tendrils of Cucurbita and thorns of Bougainvillea are

- A. Homologous organs
- B. Analogous organs
- C. Vestical organs
- D. Atavistic divergence.

**Answer: A**



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**221.** Paralelism is due to

A. Adaptive divergence

B. Adaptive convergnece

C. Adaptive convergence of unrelated species

D. Adaptive convergence of closely related species.

**Answer: D**



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**222.** Which one is correct?

- A. There is no evidence of presence of gills  
in mammalian embryos
- B. Ontogeny repeats phylogeny
- C. All plant and animal cells are totipotent
- D. Stem cells are specialised cells.

**Answer: B**



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**223.** The finches of Galapogas islands provide an evidence in favour of-

- A. Retrogressive evolution
- B. Special creation
- C. Biogeographical evolution
- D. Evolution due to mutation.

**Answer: C**



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**224.** When two species of different genealogy come to resemble each other as a result of adaptation, the phenomenon is termed:-

A. Convergent evolution

B. Divergent evolution

C. Micro-evolution

D. Co-evolution.

**Answer: A**



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**225.** Adaptive radiation refers to:-

- A. Evolution of different species from a common ancestor
- B. Adaption due to geographical isolation
- C. Migration of members of a species to different geographical areas
- D. Power of adaption of an individual to a variety of environments.

**Answer: A**

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**226.** What is common to whale seal and shark

- A. Homoiothermy
- B. Seasonal migration
- C. Thick subcutaneous fat
- D. Convergent evolution.

**Answer: D**



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227. Which one of the following groups are not analogous organs

A. Wings of birds and wings of butterfly

B. Eye of Octopus and eye of mammals

C. Flippers of penguins and flippers of  
Dolphin

D. Thorns of Bongainvillea and tendril of  
Cucurbita

**Answer: D**



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**228.** Descendent of fossil Protylopus is

A. Giraffe

B. Camel

C. Elephant

D. Cow.

**Answer: B**



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**229.** Vestigial organs provide evidence of organic evolution in the category

- A. Anatomical
- B. Embryological
- C. Morphological
- D. Palaeontological

**Answer: C**



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**230.** Life has existed on earth for the last

A. 2-3 billion years

B. 3-5 billion years

C. 4-3 billion years

D. 5-0 billion years

**Answer: B**



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**231.** Darwin's finches show one of the following aspects of evolution.

A. Adaptive radiation

B. Parallel evolution

C. Homology

D. Natural selection.

**Answer: A**



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**232.** Connecting link between Annelida and Mollusca is

A. Nautilus

B. Neopilina

C. Glochidium larva

D. Veliger larva.

**Answer: B**



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**233.** Which of the following is the earliest era

A. Coenozoic

B. Mesozoic

C. Palaeozoic

D. Pre-cambrian.

**Answer: D**



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234. Wings of birds and forelimbs of horse are \_\_\_\_\_ organs

A. Vestigial

B. Analogous

C. Homologous

D. None of the above.

**Answer: C**



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**235.** Closely related species varying different in traits expresses :

A. Convergent evolution

B. divergnet evolution

C. Parallel evolution

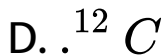
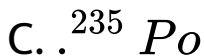
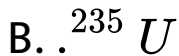
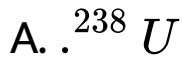
D. None of the above.

**Answer: B**



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**236.** Which of the following isotopes is used for finding the fossil age maximum about 35,0000 years?



**Answer: A**



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237. Which one of the following periods is largely associated with extinction of dinosaurs and the increase in flowering plants and reptiles

A. Triassic

B. Jurassic

C. Cretaceous

D. Permian

**Answer: C**



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**238.** Mass extinction at the end of Mesozoic era was probably due to

- A. Continental drift
- B. Massive glaciation
- C. Collision of earth with large meteorite
- D. Change in earth's orbit.

**Answer: C**



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**239.** Tachyglossus is a connecting link between

- A. Reptiles and mammals
- B. Reptiles and birds
- C. Amphibians and reptiles
- D. Birds and mammals.

**Answer: A**



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**240. Phylogeny is**

- A. Evolutionary history
- B. Life history
- C. Group of phyla
- D. Genetics of animals.

**Answer: A**



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**241.** Relatedness of two species is tested through

- A. RNA and proteins
- B. DNA and proteins
- C. Antibodies and transposons
- D. None of the above.

**Answer: B**



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242. According to Allen's rule, the mammals from colder climates have

- A. Larger body mass
- B. Small body mass
- C. Longer extremities
- D. Smaller extremities.

**Answer: D**



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**243.** Peripatus is a connecting link between

A. Porifera and coelenterata

B. Ctenophora and platyhelminthes

C. Mollusca and echinodermata

D. Annelida and arthropoda

**Answer: D**



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244. Origin of first toothed birds and gymnosperms took place during

A. Cretaceous

B. Jurassic

C. Triassic

D. Permian

**Answer: C**



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**245.** A living connecting link which provides evidence for organic evolution.

A. Sphenodon between reptiles and birds

B. Archaeopteryx between reptiles and birds

C. Lung fishes between pisces and reptiles.

D. Duck-billed Platypus between reptiles and mammals.

**Answer: D**



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246. Which of the following statements is incorrect after the industrial revolution that has occurred in England ?

- A. They had black colour
- B. They had grey body colour
- C. They shifted to different habitat
- D. They reproduced vigorously.

**Answer: A**



247. In evolution of horse, the two most important anatomical and morphological changes brought about is

- A. Limbs and tail
- B. Limbs and teeth
- C. Teeth and tail
- D. Limbs and height

**Answer: B**





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**248.** The vestiges of girdles are found in

A. Rattle snake

B. Krait

C. Cobra

D. Python.

**Answer: D**



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**249.** An evolutionary pattern characterised by a rapid increase in number and kinds of closely related species is called

- A. Divergent evolution
- B. Convergent evolution
- C. Adaptive radiation
- D. Parallel evolution.

**Answer: C**



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**250.** First seed plants evolved during

- A. Cretaceous era
- B. Carboniferous era
- C. Devonian era
- D. Silurian era.

**Answer: B**



**Watch Video Solution**

**251.** Which was the biggest land dinosaur?

A. Protoceratops

B. Amptosaurus

C. Tyrannosaurus rex

D. Ichthyosaurus.

**Answer: C**



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252. Anatomically and structurally different but functionally similar structures are called

- A. Analogous organs
- B. Homologous organs
- C. Vestigial organs
- D. None of these.

**Answer: A**



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**253.** Homologous organs have

A. Similar morphology

B. Similar anatomy

C. Different anatomy

D. All of the above

**Answer: B**



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

(A) Wings 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 or the fittest.

A. (d-i), small variation, (ii) survival, (a-i)

convergent

B. (a-i), convergent, (b-i) oxygen, (ii)-

nucleolides

C. (b-i) water vapours (ii) amino acids, (c-i),

rudimentary (ii) anatomical

D. (c-i) vestigial (ii) anatomical, (d-i)

mutations (ii) multiplications.

**Answer: A**



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**255.** Forelimbs of humans and wings of birds are

- A. Analogous organs
- B. Homologous organs
- C. Parallel organs
- D. Vestigial organs.

**Answer: B**



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**256.** Besides radio dating which method can be used to find out whether a fossil is of older era ?

- A. Lava deposits
- B. Igneous rocks
- C. Metamorphic rocks
- D. Sedimentary strata.

**Answer: D**



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**257.** Age of fishes is also known as

A. Silurian

B. Ordovician

C. Devonian

D. Permian

**Answer: C**



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**258.** Fossilized faecal materials of animals are known as :

- A. Coprolites
- B. Compressions
- C. Moulds
- D. Casts.

**Answer: A**



**259.** Identify the examples of homologous structures from the following

(i) Vertebrate hearts

(ii) Thorns in Bougainvillea and tendrils of Cucurbita.

(iii) Food storage organs in sweet potato and potato

A. Optic lobes of brain

B. Heart of vertebrates



C. Cerebrum of brain

D. All of the above.

**Answer: D**



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**260.** Which is the correct order of increasing geological time scale for a hypothetical vertebrate evolution?

A. Cenozoic, mesozoic, palaeozoic,  
precambrian

B. Cenozoic, palaeozoic, mesozoic,  
precambrian

C. Precambrian, cenozoic, palaeozoic,  
mesozoic

D. Precambrian, palaeozoic, mesozoic,  
cenozoic.

**Answer: A**



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**261.** Analogous organs are a result of

- A. Divergent evolution
- B. Genetic drift
- C. Convergent evolution
- D. Artificial selection.

**Answer: C**



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262. Which one among the following is an example for homology?

A. Wings of butterfly and bird

B. Eyes of Octopus and mammals

C. Flipper of penguins and dolphin

D. Thorn of Baugainvillea and tendril of Cucurbita

**Answer: D**



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**263.** Tendrils in plants are an example of

- A. Adaptive radiation
- B. Coevolution
- C. Convergent evolution
- D. Divergent evolution.

**Answer: C**



**Watch Video Solution**

**264.** Which one of the following matches is correct ?

(1) <i>Alternaria</i>	Sexual reproduction absent	Deuteromycetes
(2) <i>Mucor</i>	Reproduction by Conjugation	Ascomycetes
(3) <i>Agaricus</i>	Parasitic fungus	Basidiomycetes
(4) <i>Phytophthora</i>	Aseptate mycelium	Basidiomycetes



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**265.** Which of the following is a vestigial structure in man

A. Caecum

B. Pinna of ear

C. Wisdom tooth

D. Muscles of glottis.

**Answer: C**



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**266.** Which is incorrect

- A. Wings of insects and bats are homologous
- B. Wings of insects and bats are analogous
- C. Wings of bats and birds are analogous.
- D. Wings of insects and birds are analogous.

**Answer: A**



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**267.** Precious stones, such as gem stones, are products of

- A. Volcanic rocks
- B. Sedimentary rocks
- C. Metamorphic rocks
- D. Igneous rocks.

**Answer: D**



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**268.** Coenozoic era is known as

A. fishes

B. Amphibians

C. Mammals

D. Reptiles.

**Answer: C**



**Watch Video Solution**

**269.** In which geological era did microbes originate

A. Precambrian

B. Proterozoic

C. Azoic

D. Palaeozoic.

**Answer: B**



**Watch Video Solution**

270. Origin of mammal - like reptiles occurred in

A. Jurassic

B. Triassic

C. Permian

D. Tertiary.

**Answer: C**



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**271.** The eye of octopus and eye of cat show different patterns of structure, yet they perform similar function. This is an example of

A. Analogous organs that have evolved due to divergent evolution

B. Homologous organs that have evolved due to convergent evolution

C. Homologous organs that have evolved due to divergent evolution

D. Analogous organs that have evolved due to convergent evolution.

**Answer: D**



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**272.** Which of the following is not vestigial organ in human beings ?

A. Ear pinna, patella, olecranon process

B. Scalp muscles, coccygeal vertebrae

C. Ear muscles, third molars

D. Vermiform appendix, nictitating  
membrane.

**Answer: A**



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**273.** Wing of pigeon is homologous to the :

A. Ear of Bat

B. Wing of Butterfly

C. Fore leg of Horse

D. Tail of Rabbit.

**Answer: C**



**Watch Video Solution**

**274.** Arrange the periods of palaeozoic era in ascending order in a geological time scale

A. Devonian

B. Jurassic



C. Tertiary

D. Cretaceous

**Answer: A**



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**275.** Which one cannot determine phylogenetic relationships

A. Physiology

B. Morphology

C. Biogeography

D. Embryology.

**Answer: B**



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**276.** Choose the correct statements with reference to organic evolution

(a) Flippers of Whale and wings of bat exhibit analogy

(b) Wings of Butterfly and wings of bat exhibit

homolgy

( c ) Organs with dissimilar structure are called analogous organs

(d) Organs with similar structure and origin are called homologous organs.

A. a and c

B. b and d

C. a and b

D. c and d

**Answer: D**



277. The rise of first primates occurred in \_\_\_\_ epoch.

A. Palaeocene

B. Oligocene

C. Miocene

D. Eocene.

**Answer: A**



**278.** Choose the wrong statement

A. Louis Pasteur demonstrated that life comes only from pre-existing life

B. S.L. Miller observed that electric discharge in a flask containing  $CH_4$ ,  $H_2$ ,  $NH_3$  and water vapours at  $800^\circ C$  formed amino acids

C. Flippers of penguins and dolphins examples of homology

D. Homology indicates common ancestry

**Answer: C**



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**279.** Forelimbs of cat, lizard used in walking  
forelimbs of whale used in swimming and  
forelimbs of bats used in flying are an example  
of

A. Adaptive radiation

B. Homologous organs

C. Convergent evolution

D. Analogous organs.

**Answer: B**



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**280.** Which one of the following are analogous structures?

A. Gills of Prawn and lungs of Man

B. Thorns of Bougainvillea and tendrils of

Cucurbita

C. Flippers of Dolphin and legs of Horse

D. Wings of Bat and wings of Pigeon.

**Answer: A**



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**281.** An example of analogous organs is

A. Brain of fish and humans



B. Thorns and tendrils in plants

C. Wings of birds and butterfly

D. Fore limbs of frog and horse.

**Answer: C**



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**282.** This is believed to have not evolved in  
Cenozoic period :

A. Bryophytes

B. Ferns

C. Conifers

D. Cycads.

**Answer: A**



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**283.** Fossils act as evidence of organic evolution. Which one of these features does not justify feature of fossils ?

A. They are remains of hard parts of life forms that existed in past

B. They are remains of decayed and decomposed body parts

C. Fossils present in lower strata of the earth are older than those present in the upper strata

D. Study of fossils of different sedimentary layers indicate the geological period in which they existed.

**Answer: B**



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**284.** Choose the wrong pair

A. Divergent evolution — Fore limbs of whales, bats, cheetah and human

B. Convergent evolution — Flippers of penguins and dolphins

C. Homologous structures — Vertebrate hearts

D. Analogous structures — Tendril of Bougainvillea and Cucurbita.

**Answer: D**



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**285.** How many years are considered in one minute in Geological clock

A. 52,000 years

B. 3,250,000 years

C. 187,500,000 years

D. 190,000 years.

**Answer: B**



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**286.** Wings of butterfly and wings of birds are examples of

A. Vestigial organs

B. Analogous organs

C. Homologous organs

D. Atavistic organs.

**Answer: B**



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**287.** Match the following with references to geological time scale

- (a) Origin of trilobites (i) Silurian  
(b) Origin of ostracoderms (ii) Carboniferous  
(c) Origin of fishes (iii) Cambrian  
(d) Origin of amphibians (iv) Ordovician  
(e) Origin of cotylosaurs (v) Devonian

A. (a=iii), (b-c), (c-i), (d-iv), (e-ii)

B. (a-ii), (b-v), (c-i), (e-iii)

C. (a-iii), (b-iv), (c-ii), (d-v), (e-i),

D. (a-iii), (b-iv), (c-i), (d-v), (e-ii)

**Answer: D**



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**288.** Select the correct pair

A. Adaptive radiation — Darwin's Finches

B. Connecting Link — Peppered Moth

C. Industrial melanism — Archaeopteryx.

D.

**Answer: A**



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**289.** The wings of a bird and the wings of an insect are

- A. Homologous structures and represent divergent evolution
- B. Analogous structures and represent convergent evolution
- C. Phylogenetic structures and represent divergent evolution

D. Homologous structures and represent convergent evolution.

**Answer: B**



**Watch Video Solution**

**290.** One of the following period witnessed the maximum diversity of reptiles

A. Cretaceous

B. Jurassic

C. Pleistocene

D. Triassic.

**Answer: A**



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**291.** Which is a connecting link between fishes and amphibians

A. Lung fish and Protopterus

B. Latimeria

C. Seymouria and Sphenodon

D. All of the above

**Answer: A**



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**292.** From evolutionary point of view , the tendrils of Pea plant and Grape Vine are

A. Homologous organs

B. Analogous organs

C. Connecting links

D. Missing links.

**Answer: B**



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**293.** Which one of the following is reptilian ancestor of birds ?

A. Hesperornis

B. Ichthyornis

C. Archaeopteryx

D. Lychaenops.

**Answer: C**



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**294.** With the help of carbon dating technique which one of the following can be measured

A. Age of fossil

B. Age of a rock

C. Age of a monument

D. Age of universe.

**Answer: A**



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**295.** Which of the following pair is homologous organ?

A. Paddle of whale, front leg of horse and arms of man



B. Sting of honey bee, sting of scorpion and  
poison fang of snake

C. Wings of butterfly, wings of flying fish,  
wings of birds

D. Tail of scorpion, tail of bird, tail of  
monkey.

**Answer: A**



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**296.** Founder of modern palaeontology is

A. Linnaeus

B. Aristotle

C. Cuvier

D. Lanmarck.

**Answer: C**



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297. This period belonged to palaeozoic era

A. Triassic

B. Cambrian

C. Jurassic

D. Cretaceous.

**Answer: B**



**Watch Video Solution**

**298.** The first vertebrates were :

A. Jawless Fish

B. Monkey

C. Frog

D. Horse.

**Answer: A**



**Watch Video Solution**

299. Which of the following is a pair of analogous organs ?

- A. Wing of bird and flipper of whale
- B. Fore limbs of horse and man
- C. Wing of bird and fore limb of horse
- D. Wing of insect and wing of bird.

**Answer: D**



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**300.** Given below are four statements i-iv regarding geological time scale. Read them carefully.

(i) Paleozoic era is the era of ancient life.

(ii) Ordovician period is the age of vertebrates.

(iii) Carboniferous period is the age of reptiles

(iv) Proterozoic era is the era of early life

Which of the above two statements are incorrect ?

A. i

B. ii

C. iii

D. iv.

**Answer: C**



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**301.** Which of the following structures is homologous to the wing of a bird?

A. Flipper of whale

B. Dorsal fin of shark

C. Wing of a moth

D. Hind limb of rabbit.

**Answer: A**



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**302.** Given below are assertion and reason.

Point out if both are true with reason being correct explanation (A), both true but reason is not correct explanation (B), assertion true but reason is wrong ( C ), both are wrong (D).



Assertion : Analogous organs are a result of divergent evolution

Reason : Eye of Octopus and that of mammals depict divergent evolution.

A. (A)

B. (B)

C. (C)

D. (D)

**Answer: D**



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**303.** Documented microfossils have been found that are as old as

A. 2.5 million years

B. 3.5 billion years

C. 1.5 billion years

D. 2.5 billion years

**Answer: B**



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## Check Your Grasp

1. Founder of modern palaeontology is

- A. Birbal Sahni
- B. Steward
- C. Cuvier
- D. Leonard de Vinci.

**Answer:**



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2. Gills are found in

A. 5000 years old

B. 25000 year old

C. 500,000 year old

D. 2.5 million years old.

**Answer:**



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3. An old city got buried under lava was

A. 635 B.C.

B. 79 A.D.

C. 635 A.D.

D. 1379 A.D

**Answer:**



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4. Petrified fossils are a type of fossils having

A. All internal details

B. Organic materials replaced by mineral matter

C. Compressed remains of dead organisms

D. Thin carbon film showing external features.

**Answer:**



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5. Birbal Sahni Institute of Palaeobotany is situated in

A. Lucknow

B. Calcutta

C. Pune

D. Banglore.

**Answer:**



**Watch Video Solution**

6. Monera evolved during

A. Azoic

B. Archaeozoic

C. Proterozoic

D. Precambrian.

**Answer:**



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7. Age of trilobites is

A. Precambrian

B. Devonian

C. Cambrian

D. Permian.

**Answer:**



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8. Epoch in which first man-like creatures evolved was

A. Holocene

B. Pliocene

C. Pleistocene

D. Miocene.

**Answer:**



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9. Free caudal vertebrae occurred in fossil Archaeopteryx. The trait is

- A. Reptilian
- B. Avian
- C. Neither A nor B
- D. Mammalian.

**Answer:**



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**10. Gondwana Land comprised**

A. India and Australia

B. India, Australia and New Zealand

C. India, Australia, New Zealand and South

Africa

D. India, Australia, New Zealand, South

Africa and South America.

**Answer:**



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**11.** Darwin's finches on Galapagos islands are example of

A. Convergent evolution

B. Divergent evolution

C. Adaptive radiation

D. Both B and C

**Answer:**



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## 12. Related species of Alligators and Magnolias

occur in

(a) Both sides of isthmus of Panama

(b) China and Japan

(c) China and eastern U.S.A.

(d) Parts of Russia and Canada

A. Both sides of isthmus of Panama

B. China and Japan

C. China and eastern U.S.A.

D. Parts of Russia and Canada.

**Answer:**



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**13.** Analogous organs with similar external morphology are called

- A. Homoplalstic
- B. Hetroplastic
- C. Heteromorphic
- D. Both B and C

**Answer:**



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**14.** An embryo may sometimes develop from any cell of embryo sac other than egg. It is termed as

A. Last abdominal segment in Honey Bee and Scorpion

B. Oviposter in Honey Bee and scorpion



C. Last abdominal segment in Honey Bee  
and ovipositor in scorpion

D. Ovipositor in Honey Bee and last  
abdominal segment in Scorpion.

**Answer:**



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**15.** In human beings canine teeth are

A. Useless

B. Required for tearing food parts

C. Chewing teeth

D. Used for nibbling food articles.

**Answer:**



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**16.** *Proteus anguinus* is characterised by vestigial

A. Limbs

B. Eyes

C. Wings

D. Vermiform appendix.

**Answer:**



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**17. Flightless bird of Australia is**

A. Kiwi and Rhea

B. Rhea and Emu

C. Emu and Cassowary

D. Emu and Kiwi.

**Answer:**



**Watch Video Solution**

**18.** Heart with incompletely divide ventricle is found in

A. Amphibians

B. Reptiles

C. Crocodiles

D. Fish

**Answer:**



**Watch Video Solution**

**19.** Who proposed for the first time that developing animal embryo passes through stages resembling adults of its ancestors.

A. Van Baer

B. Meckel

C. Haeckel

D. Darwin

**Answer:**



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