

# Palaeontology: Study of fossils



- Which of the following era represents the longest time period?
  - Cenozoic
  - Paleozoic
  - Mesozoic
  - Precambrian
- The Paleozoic era does not include the:
  - Ordovician
  - Jurassic
  - Devonian
  - Permian
- The \_\_\_\_\_ was an era dominated by the dinosaurs.
  - Precambrian
  - Paleozoic
  - Mesozoic
  - Cenozoic
- Fossils are most common in which rock types?
  - Sedimentary
  - Igneous
  - Metamorphic
  - All of these commonly contain fossils
- Which of the following will not make a fossil?
  - Decomposed organic material
  - Plant impressions (casts)
  - Animal footprints
  - Loose animal bones
- What does a scientist need to know to figure out the absolute age of a rock?
  - The rate of decay of the rock's half-life
  - The rate of decay for a radioactive element in the rock
  - The rate of decay for all elements in the rock
  - The half-life of a radioactive element in the rock
- What is amber?
  - A wet, sticky tree sap
  - A hard shell
  - Hardened tree sap
  - An insect's body
- How are rock layers arranged in the geologic column?
  - Oldest rocks are on the top
  - Youngest rocks are in the middle
  - Oldest rocks are at the bottom
  - Youngest rocks are at the bottom
- Which of the following is an example of mineral replacement?
  - Petrified wood
  - La Brea tar pits
  - Hardened tree sap
  - A frozen mammoth
- Which of the following is an example of a trace fossil?
  - A frozen mammoth
  - Preserved footprints
  - Mold and cast
  - Hardened tree sap
- How does a geologist know that rock layers are undisturbed?
  - Rock layers are tilted
  - Rock layers are horizontal
  - Rock layers are faulted
  - Rock layers are folded
- Who is the father of Indian Palaeobotany?
  - Birbal Sahni
  - Madan Lal Khurana
  - Salim Ali
  - Har Gobind Khorana
- Name the famous fossil plant which was collected from Rajmahal Hills and reconstructed by Prof. Birbal Sahni.
  - Williamsonia seawardiana*
  - Crossotheca hughesiana*
  - Erythroxyton*
  - Lepidodendron*
- The fossil man found from the Siwalik Hills of India is:
  - Australopithecus*
  - Homo neanderthalensis*
  - Ramapithecus*
  - Homo sapiens*
- Birbal Sahni Institute of Palaeosciences is located at:
  - Delhi
  - Lucknow
  - Dehradun
  - Kolkata
- A connecting link between reptiles and birds is:
  - Dimetrodon*
  - Dodo
  - Archaeopteryx*
  - Sphenodon*
- In the phylogeny of horse, the earliest fossil form is:
  - Eohippus*
  - Meshippus*
  - Merychippus*
  - Equus*
- The age of fossils is determined by:
  - Analysis of bones
  - Electron microscopy
  - Weighing the fossils
  - Radioactive C-14 dating
- Which fossil plant is the missing link between ferns and seeds?
  - Pteridosperms
  - Gymnosperms
  - Angiosperms
  - Bryophyta
- Which fossil animal is the missing link between amphibians and reptiles?
  - Seymouria*
  - Ichthyostega*
  - Lycaenops*
  - Basilosaurus*
- Which fossil animal is the missing link between fishes and amphibians?
  - Ichthyostega*
  - Seymouria*
  - Ginkgo biloba*
  - Lycaenops*

Answers:

- 1) d   2) b   3) c   4) a   5) a   6) b   7) c  
 8) c   9) a   10) b   11) b   12) a   13) a   14) c  
 15) b   16) c   17) a   18) d   19) a   20) a   21) a

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# Know About Forests

- Which of the following forests is known as the “Lungs of the Planet Earth”?
  - Tundra
  - Amazon rain forest
  - Taiga forest
  - Rain forest of Northeast India
- What type of forest is known as “Selvas”?
  - Tropical rain forest
  - Coniferous forest
  - Mediterranean forest
  - Tropical monsoon forest
- The Forest Research Institute of India is located at:
  - Delhi
  - Kanpur
  - Hyderabad
  - Dehradun
- What type of forest in India has highest percentage of land area under coverage?
  - Tropical deciduous
  - Tropical rainforest
  - Himalayan moist temperate
  - Tropical dry evergreen
- What percentage of total geographical area of India comes under forest coverage?
  - 20
  - 19.5
  - 21.34
  - 21.0
- Which of the following States has highest area under forest cover?
  - Arunachal Pradesh
  - Madhya Pradesh
  - Orissa
  - Chhattisgarh
- India’s costliest timber is obtained from:
  - Teak
  - Silver Oak
  - Sal
  - Sandal
- Association between mycorrhiza and nitrogen fixing bacteria is found in the root of:
  - Dalbergia sissoo*
  - Santalum album*
  - Acacia auriculiformis*
  - Tectona grandis*
- Which of the following plants is characterized by the presence of “Phyllode” – the flattened leaf stalk?
  - Shorea robusta*
  - Grevillea robusta*
  - Dalbergia sissoo*
  - Acacia auriculiformis*
- In the rainforest, most nutrients (over 75%) are contained in the:
  - Soil
  - Plants
  - Rocks
  - Rainwater
- Tropical rainforest climate would not be found in which of the following countries?
  - India
  - Pakistan
  - Bangladesh
  - Indonesia
- Which of the following forest plant shows alleopathic effect?
  - Sandal
  - Silver Oak
  - Teak
  - Eucalyptus
- What refers to the uppermost layer of forest vegetation?
  - Foliage
  - Range
  - Canopy
  - Crown
- Which tree is closely associated with the life of tribal people?
  - Cadam
  - Mahua
  - Sisso
  - Eucalyptus
- Which year was observed as ‘International Year of Forests’?
  - 2000
  - 2011
  - 2002
  - 2016
- The plant being criticized for being a water-guzzling alien is:
  - Teak
  - Sal
  - Eucalyptus
  - Silver Oak

### Answers:

- 1) b    2) a    3) d    4) a    5) c    6) b    7) d  
 8) c    9) d    10) a    11) b    12) d    13) c    14) b  
 15) b    16) c

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