

# Question Bank – Mine Geology-II

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## 2 Marks Questions

- What is Stratigraphy?
- What is Fossils?
- What is Index Fossils?
- Write down the two uses of Fossils?
- Write down the two economic importance of the Vindhyan rocks of India ?
- Write down the two economic importance of Gondwana rocks of India?
- Write a short notes about “Period”?
- Short notes about “Eras”?
- What is oil trap?
  
- What is oil pool?
- Short notes :-
  - Rank of Coal
  - Fuel Ratio
  - Bituminous Coal
  - Oil fields of Gujarat
  - Oil fields of Assam
  - Bombay High
- What is Ore and Tenor?
- Define Ore and Ore mineral with examples.
- Define Gangue?
- What is the mode of Occurrence of Iron ore deposit in India?
- Write down the nature of copper occurs in 4- principal forms?
- Write down the important uses of lead & zinc?
- Short notes about UNFC classification?
- Write down the two economic uses of Chromites?
- What is the difference between prospecting and exploration?
- Write down 2-uses of Gravity method?
- What do you mean by Equipotential method?
- Write down 2-uses of Resistivity method?
- Short notes about wenner method?
- Define seismic method and write down the equation?
- Differentiate between Alpha and Gamma rays?
- Difference between Refraction Survey and Reflection Survey?

- Difference between Direct and Indirect method?
- Write down 2-uses of Magnetic method?
- Differentiate airborne & Ground Radiometric Surveys.
- Differentiate between Resistivity Traversing & Sounding?
- Differentiate between Bio-geochemical & Geo-botanical prospecting?
- What is sampling?
- Name the types of Sampling?
  
- **Define :**
  - (a) Grab Sampling
  - (b) Dump Sampling
  - (c) Chip Sampling
  - (d) Testing of Samples
  - (e) Channel Sampling
  - (f) Bulk Sampling

### 5 Marks Questions

- Describe the Geological Time Scale.
- Describe the principle of stratigraphy.
- Write down the distribution of coal in India.
- What is fuel ratio and fixed carbon and how do you determine fuel ratio in coal?
- Define ore, tenor, grade and gangue with examples.
- Describe UNFC and Code Classification of reserves?
- Write a short notes about lead and Zinc?
- Describe mineralogy Cu ore deposits in India?
- What is the difference between prospecting and exploration?
- Short notes about wenner method with circuit diagram?

### 10 Marks Questions

- Describe the Stratigraphic Sequence, distribution and economic mineral deposits of Vindhyan Super group?
- Describe structure, lithology, distribution of cuddapah super group with succession?
- Describe structure, lithology, distribution of cuddapah super group with succession?
- Explain in details the physiographic divisions of India.
- Describe various important lower Gondwana Coal fields of India.

- Describe the theories for origin of petroleum?
- Describe with sketches the geological conditions favourable for accumulation of petroleum.
- Give the various theories about the origin of coal. Write about the banded constituents coal.
- Describe the mineralogy, mode of occurrences and distribution of iron ore deposits in India.
- Describe the mineralogy, mode of occurrences and distribution of chromite ore deposits in India.
- Describe the mineralogy, mode of occurrences and distribution of copper ore deposits in India.
- Describe the principle and applications of radiometric survey.
- Explain the Scheme of exploration of oil and Gas deposits by geochemical method?
- List the various geophysical methods of prospecting. Describe the electrical methods in detail.
- Explain different sampling methods as outlined by BIS. (Bureau of Indian Standards)

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