

**Note: Answer any Five full questions**

1. What is applied Geology and how is it differ from pure Geology? Explain the Geological work in operating mine.
2. What is Economic Geology? Mention the classification of mineral deposits. Add a note on controls of ore-deposition.
3. Explain (a) Early magmatic mineral deposits.  
(b) Placer deposits.
4. (a) Give an account of Manganese ore deposits of India.  
(b) Add a note on Building stones.
5. Explain the formation of coal deposits. Discuss the physical and chemical characters of coal. Add a note on major coal fields of India.
6. Explain the origin, accumulation and migration of oil and natural gas. Discuss about the major oil-fields of India.
7. What is mineral exploration? Discuss briefly the basic principles of minerals exploration. Add a note on stages of mineral exploration.
8. Explain in detail, the various stages of sampling.