

M.Tech. II Semester Degree Examination, September/October - 2022**MINERAL PROCESSING****21MNP2C8L - Indian Mineral Deposits**

Time : 3 Hours

Maximum Marks : 70

Instructions : (i) Question number 1 is **compulsory**.
(ii) Answer **any 5** of the following.

1. (a) Explain the importance of Strategic Minerals. **4**
(b) What are essential minerals and different types of essential minerals ? **5**
(c) Explain the mineral resources in India. **5**
2. (a) Explain the Flow sheet development. **5**
(b) Conservation of mineral resources. **5**
(c) Give an account of Chromite deposits of India. **4**
3. (a) Explain the mineralogy, distribution and genesis of iron ore deposits of Karnataka. **10**
(b) Using a flow-sheet, explain the processing of iron ores. **4**
4. (a) Give an account of Lead and Zinc deposits of Rajasthan. **7**
(b) Discuss how the mineral resources are important for the Industries and Economy of a nation. **7**

OR

Explain the distribution and mineralogy of Manganese ore deposits of Maharashtra and Madhya Pradesh.

5. (a) What are Non-Renewable Resources ? Explain. **4**
(b) Draw a flow-sheet and, explain how a copper ore is beneficiated ? Mention its occurrence. **10**

6. (a) Discuss the origin and distribution of refractory mineral deposits of India. **5**
(b) Write a note on coal types and their ranks. **5**
(c) Give an account of minerals used in cement and ceramic industries. **4**
7. (a) What is glass ? Explain in brief the minerals used in glass industries. **7**
(b) Explain the petroleum deposits of India and their distribution. **7**

OR

Discuss the magnetite deposits of India.

8. (a) Write a short note on oil traps. **5**
(b) Add a note on Expendable and Non-expendable minerals. **5**
(c) Explain Abrasive Minerals. **4**

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