

Name/Title of Paper- ORE & FUEL GEOLOGY

Time : Three Hours]

[Maximum Marks : 80]

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer From Both the Section as Directed. The Figures in the right-hand margin indicate marks.

Section-'A'

1. Answer the following questions:

1x10

- (a) Give the name of two copper ores.
- (b) Malachite is an ore of which metal.
- (c) Give the name of two Aluminum ore.
- (d) Write down name of two metals found as placer deposit.
- (e) Which mines of coal is known as 'Biggest Coal Mines of Asia'.
- (f) What do you mean by Fixed Carbon?
- (g) Name the prominent offshore petroleum deposit of India.
- (h) Write down the name of Diamond field in India.
- (i) Petroleum deposits occur in rock of which geological age.
- (j) Monazite belongs to which group of Economic Mineral.

Section- 'B'

2x5

- 2. (a) Define the ore Textures.
- (b) Define the ore Localization.
- (c) Write the name of orthomagmatic ores.
- (d) What do you mean by Strataform ore deposits?
- (e) Write down names of principal ores of manganese.

Or

- (a) Write about modern concepts of ore genesis.
- (b) Name the REE found in carbonates.
- (c) Write the name of five minerals of metamorphic origin.
- (d) What do you mean by 'Mineral Concession rules'?
- (e) What is 'Kerogen'?

Section- 'C'

Answer all questions:-

12x5

3. Write an essay on Textures, Paragenesis & Zoning in ores.

Or

Write a note on physical, chemical and stratigraphic controls of ore localization.

4. Write an essay cyprals type -Cu-Zn ores.

Or

Write an essay on kuroke-type of Zn-Pb. deposits.

5. Describe the mineralogy, genesis and distribution of Aluminum ores in India.

Or

Write notes on:-

- (a) Skarn deposit
- (b) Stratiform sedimentary deposits
- (c) Placer deposits
- (d) Sulphide ore of Copper.
- 6. Describe mineralogy, genesis, distribution of Iron minerals, in India.

Or

Write a note on "National-Mineral-Policy".

7. Write a note on origin, nature & migration of oil & gas.

Or

Define the kerogenes & discuss their origin.