PD-398
(583) M.Sc. GEOLOGY (THIRD SEMESTER)
Examination DEC. 2020
Compulsory/Optional
Group-
Paper-II

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'

2. **2x5**

(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 cypras 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.

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