5 SEM TDC GEO M 3

2018

(November)

GEOLOGY

(Major)

Course: 503

(Economic Geology)

Full Marks: 48
Pass Marks: 19/14

Time: 2 hours

The figures in the margin indicate full marks for the questions

UNIT—7.1

(Principles of Economic Geology)

(Marks : 10)

- 1. (a) Define ore minerals and gangue, and give suitable examples.
 - (b) What do you mean by tenor of ores?

 Mention the factors which control tenor.

1

control mineral deposition.

Mention the essential factors which

	(d)	Write on morphology of fluvial placer deposit.]					
	(e)	How is global tectonics involved in metallogeny?						
	(f)	Describe either 'contact metasomatism' or 'metamorphism' process of formation of economic mineral deposits.	4					
		UNIT—7.2 (Types of Mineral Deposits)						
	ži is	(Marks : 15)						
2.	(a)	 Write briefly on the following: 1×4= (i) Economic mineral deposits found in ultrabasic rocks (ii) Zones of oxidation (iii) Cavity filling deposits (iv) Kimberlites and their economic minerals 						
	(b)	Describe the origin and structure of						

porphyry copper or tin deposit.

(c)

5

1

(c)	Write short	notes	on	any	two	of	the
. ,	following:						3×2=6

- (i) Skarn deposits
- (ii) Pegmatite deposits
- (iii) Metallogenic province

UNIT-7.3

(Mineral Deposits of India)

(Marks: 15)

3. (a) Discuss the origin, occurrence and distribution of copper deposits in India.

Or

What are the common ores of iron? Describe the geology and structure of an iron ore deposit of India.

(b) Write short notes on any two of the following: 4×2=8

- (i) Geology of the Bombay High Oil Field
- (ii) Distribution of manganese ores in India
- (iii) Limestone deposits of N-E India
- (iv) Refractory and ceramic mineral deposits of N-E India

7

7

UNIT-7.4

(Mineral Policy)

(Marks : 8)

- 4. (a) Describe in brief the National Mineral Policy of India.
 - (b) Write short notes on any two of the following: 2×2=4
 - (i) Substitution
 - (ii) Essential minerals of India
 - (iii) Economy in use of minerals

for Refluctors, and ceran