

**H-4/19/22**

Roll No. ....

**IV Semester Examination, 2022****M.Sc.****GEOLOGY****Paper III****(Mineral Resources of Chhattisgarh : Development and Administration)**

Time : 3 Hours ]

[ Max. Marks : 80

**Note :** All questions are compulsory. Question Paper comprises of 3 sections. Section **A** is objective type/multiple choice questions with no internal choice. Section **B** is short answer type with internal choice. Section **C** is long answer type with internal choice.

**SECTION A****1×10=10****(Objective Type/Multiple Choice Questions)***Choose the correct answer :*

1. The Nallamalai group of rocks of Cuddapah supergroup is characterised by mineralisation of :  
 (a) Copper (b) Lead  
 (c) Copper and lead (d) Copper, lead and tin

P.T.O.

2. The Gold-quartz mineralisation of the KGF took place during :  
 (a) Dharwar Orogeny  
 (b) Dharwar Geosynclinal Period  
 (c) Eastern Ghat Orogeny  
 (d) Cuddapah Geosynclinal Period
3. The famous Panna (Mazagawa) Diamond deposits in Madhya Pradesh Diamonds are found in the rock :  
 (a) Basalt (b) Conglomerate  
 (c) Kimbortite (d) Pegmatite
4. The Sausar and Sakall groups are associated with the deposition of :  
 (a) Diamonds (b) Lead and Copper  
 (c) Manganese (d) Iron
5. Famous Terra Cotta of Chhattisgarh is made up from the mineral :  
 (a) Gypsum (b) Clay  
 (c) Red sand (d) Limestone
6. Tin deposits of Bastar Chhattisgarh is found in the rock :  
 (a) Granite (b) Pegmatite  
 (c) Gneiss (d) Basalt

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7. Most of the coal deposits in Chhattisgarh falls in :

- (a) Lignite                      (b) Anthracite  
(c) Bituminous                (d) Peat

8. RP, PL and ML is granted by the procedure wherein the officer/authorities involved :

- (a) Collector  
(b) State and Central Government  
(c) Gram Panchayat  
(d) Chief Minister

9. Mining plan of any area after successful granting of Reconnaissance permit, prospecting licence (PR) and Mining lease is approved by the office :

- (a) Geological Survey of India, Culcutta  
(b) Indian Bureau of Mine Nagpur  
(c) Directorate of Geology and Mining, Raipur  
(d) Collector of the District Concern

10. Full form of MCDR is ..... .

### SECTION B

4×5=20

#### (Short Answer Type Questions)

#### Unit-I

1. Give any three geological formation/groups of

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Chhattisgarh with mineral of lithology therein and their at least one equivalent in India.

Or

Write in short in any *three* formation of Chhattisgarh with their mineral resources and use of these mineral resources in appropriate Industries.

#### Unit-II

2. Write in short on bauxite deposits of Chhattisgarh and their lithological association.

Or

Write in short on Iron-ore deposits of Chhattisgarh only on their various mineral types.

#### Unit-III

3. What is a flagstone ? Write in short on the flagstone industry of Chhattisgarh its uses.

Or

Give the list of at least *five* non-metallic minerals in Chhattisgarh and their industrial use.

#### Unit-IV

4. What do you understand by the word "Mineral Development" as per act.

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Or

What is RP (Reconnaissance Permit) and what for it is used.

### Unit-V

5. What is a progressive and final kaikhe closure plan.

Or

Write on the royalty, deed rent and other fee as per Govt. of Chhattisgarh (in short).

### SECTION C

10×5=50

### (Long Answer Type Questions)

#### Unit-I

1. Write in short on metallogeny in time and space in Chhattisgarh.

Or

Write in short on important Geological formations in Chhattisgarh and mineral resource therein.

#### Unit-II

2. Write in short on various aspects on tin deposits of Chhattisgarh.

Or

What are the important non-metallic deposits of Chhattisgarh with their places and geological formation of occurring.

### Unit-III

3. What are the important minerals used in Iron and steel industries and importantly stress on why ?

Or

What are the main minerals used in cement industry and importantly stress on why ?

### Unit-IV

4. Write in short on prospecting licence (PL) and mining lease (ML).

Or

Write in short on MMDR 1957.

### Unit-V

5. What are the salient features of Mineral Concession and Development Rule 1988.

Or

Write in short on Chhattisgarh Minor Mineral Rule 2015.

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