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- (B) Define Mineral and Gangue 2
- (C) Describe the Act and Rule by giving a relevant example.

Or

Explain Lease, Lessee, Permit, and License.

(D) Define Chhattisgarh Minor Mineral Rules 2015.12

Or

Describe the salient features of MMDR Act, 1957.

UNIT-II

- **2.** (A) Define feasibility axis of UNFC 2
 - (B) Define MCDR and its importance. 2
 - (C) Describe the difference between progressive and final mine closure plans.4

Or

Geological axis of UNFC. Write in brief.

[2]

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Total No. of Printed Pages : 4

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Fourth Semester Online Examination, May-June, 2022

M. Sc. GEOLOGY

Paper III

[Mineral Resource Development and Mining Geology]

Time : Three Hours]

[Maximum Marks : 80

- Note: (i) Part A and B of each question in each Unit consist of very short answer type questions which are to be answered in one or two sentences.
 - (ii) Part C (Short answer type) (Word limit 200-250) and Part D (Long answer type) of each question should be answered within the word limit (400-450 words) mentioned.

UNIT-I

- **1.** (A) Write the full name of the following :
 - (i) CMPDI
 - (ii) BCCL
 - (iii) KIOCL
 - (iv) MECL

2

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(D) Write in detail about the protection of environment mentioned in the MCDR.12

Or

Discuss the environmental impact assessment of a coal mine.

UNIT-III

- 3. (A) Define the term trenching.(B) Describe adits, tunnels and shafts.
 - (C) Write a note on different types of mine support used in U/G mines.

Or

Define the subsidence by elaborating the cause and its impact

(D) Write in detail about the different explosives used in the mining operation. 12

Or

Define inundation and its impact on the coal mining by giving suitable case study.

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UNIT-IV

4.	(A)	Define the term white damp.	2
	(B)	CMRS stands for.	2
	(C)	Write a short note on Mine gases.	4

Or

Write a short note on centrifugal fan with neat sketch.

(D) Discuss the various methods of stopping. 12

Or

Define the miner's diseases and dust hazards.

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