Time: 2-00 Hours]

## 1804E079

Candidate's Seat No :\_\_\_\_\_

## M.Sc. Sem-4 Examination

510

Geology April 2022

[Max. Marks: 50

## Attempt any three questions from section -I

Q - 1		Write a note on computer solutions used in mining.	[14
Q - 2	(i)	Longwall advancing method of mining.	[07]
	(ii)	Types of drilling methods.	[07]
Q - 3		Explain Geology as applied to urban planning.	[14]
Q - 4	(i)	Renewable earth resources.	[07]
	(ii)	Environmental implications of floods.	[07]
Q - 5		Discuss the Geology of the productive oil fields of India.	[14]
Q - 6	(i)	Radioactive logging.	[07]
	(ii)	Mud-filtrate invasion.	[07]
Q - 7		Write a note on coalification time and temperature.	[14]
Q - 8	(i)	Coal bed methane.	[07]
	(ii)	Gasification of coal.	[07]
		Section – II	
Q - 9		Answer any eight of the following short questions.	[08]
	(i)	Define winze and raise.	
	(ii)	What is subgrade?	
	(iii)	Name the exploration phases.	
	(iv)	Define catastrophic hazards.	
	(v)	State two effects of volcanism on environment.	
	(vi)	Give one good example of environmental management.	
	(vii)	What is thermal cracking of Kerogen?	
	(viii)	Name the basins of Gujarat.	
	(ix)	Define petrophysical analysis.	
	(x) (xi)	State the Tertiary coal fields of India.  Define maceral.	
	(xii)	What is chemical characterization of coal?	
	(1111)	That is entiment enaracterization of coar:	