Annexure

Syllabus for recruitment to the post of Geologist, Petrologist, Geophysicist and Mining Officer

The written examination will consist of 02 (Two) papers with 500 marks (total). All question papers will be set in English and the same should be answered in English only. The maximum mark for the Viva Voce test is 50.

1. Paper – I – General Studies & Awareness Test of all categories of Posts.

Paper	Pattern	Syllabi	No of Questions	Marks	Duration
1	2	3	4	5	6
General Studies & Awareness	Objective Type /Multiple Choice Questions	Current Affairs	25	50	2 hours
		History & Geography	40	80	
		General Science	20	40	
		Economics	15	30	
Total			100	200	

2. Paper – II – Specialisation Paper for each post.

Name of the Posts	Subject	Pattern	No of Questions	Total Marks	Duration
1	2	3	4	5	6
Geologist	Geology	Objective Type /Multiple Choice Questions	150	300	3 Hours
Petrologist	Geology	Objective Type /Multiple Choice Questions	150	300	3 Hours
Geophysicist	Geophysics	Objective Type /Multiple Choice Questions	150	300	3 Hours
Mining Officer	Mining Engg. / Applied Geology **(Candidate shall be required to choose one subject)**	Objective Type /Multiple Choice Questions	150	300	3 Hours

Broad Outlines of Paper – I – General Studies & Awareness Test.

The paper in General Studies & Awareness will include Knowledge of Current Affairs, History & Geography, General Science and Economics as may be expected of a Graduate person.

Broad Outlines of Paper – II - Specialisation Paper.

For the post of Geologist/Petrologist:

(a) Geomorphology

(b) Structural Geology

(c) Geodynamics
(d) Stratigraphy
(e) Palaeontology
(f) Igneous Petrology
(g) Sedimentology
(h) Metamorphic Petrology
(i) Rock Mechanics
(j) Remote Sensing
(k) Geographical Information System

For the post of Geophysicist:

(a) Solid Earth Geophysics
(b) Earthquake and Engineering Seismology
(c) Mathematical Methods in Geophysics
(d) Electrodynamics
(e) Electrical and Electromagnetic methods
(f) Geophysical Signal Processing
(g) Remote Sensing and GIS (Geographical Information System) applications
(h) Disaster Management
(i) Structural Geology

For the post of Mining Officer (Applied Geology):

(a) Disaster Management
(b) Energy Resources
(c) Economic Geology
(d) Paleontology
(e) Mineralogy
(f) Structural Geology
(g) Geochemistry
(h) Sedimentology
(i) Ore Geology
(j) Rock Mechanics
(k) Remote Sensing
(l) Geographical Information System
(m) Petroleum Geology

For the post of Mining Officer (Mining Engineering):

(a) Exploration Drilling
(b) Explosives and Initiating Systems

(c) Drilling & Blasting in Surface Mines

(d) Drilling & Blasting in Underground Mines

(e) Linear Measurement

(f) Angular Measurement

(g) Levelling

(h) Contours: Concepts

(i) Plane Table Surveying

(j) Introduction to Mining

(k) Mineralogy & Petrology

(l) Introduction to theory of Machines