

End Semester/Reappear (Semester III) Examination December, 2024

Programme: B.Tech (MiE)

Course: Mining Geology I

Course Code: 8PCCMiE202

Enrolment no. \_\_\_\_\_

Full Marks: 70

Time: 3 Hrs.

Q.N o.	Questions	CO	Bloom Taxonomy Category	Marks
<b>Section I</b>				
1	<b>Short Answer type questions.</b>			<b>4 x 5 = 20</b>
a	How do the rivers cause erosion, transportation and deposition? or	CO1	Remember	
	Differentiate Ore and mineral with example.	CO1	Analyze	
b	State the any three ores of Iron with its physical properties. or	CO2	Remember	
	Express the various importance of mineralization in mining.	CO2	Understand	
c	Differentiate between Extrusive rock and Intrusive rock. or	CO3	Analyze	
	Discuss about the Petrology in brief.	CO3	Understand	
d	Explain concept of stratigraphy. What do we learn in this topic? or	CO4	Understand	
	Discuss economic importance of Gondwana system.	CO4	Understand	
<b>Section II</b>				
<b>Long Answer type questions. Answer any three.</b>				
2	Illustrate the volcano? Explain any three types of Volcano's with diagram. or	CO1	Understand	<b>3 x 10 = 30</b>
	Give an account of internal structure of earth.	CO1	Understand	
3	Compare between rock forming minerals and ore forming minerals. With example. or	CO2	Understand	
	Illustrate how can we differentiate between Quartz and Mica with example?	CO2	Apply	
4	Describe the Process of metamorphism? Also classify the common metamorphic rocks, Quartzite, Gneiss, and Schist. or	CO3	Apply	
	In your study how we assume the occurrence of igneous rock in earth crust works explain with neat sketch diagram.	CO3	Apply	
<b>Section III</b>				
<b>Application based questions.</b>				
5	In your study briefly classify the different types of fossils & describe the principle of stratigraphy in brief. or	CO4	Analyze	<b>1 x 20 = 20</b>
	Explain the regular condition of preservation and uses of fossils index. Also brief about formation of petroleum & gas in India with neat sketch diagram.	CO4	Analyze	

\*\*\*\*\*

**Course Outcome:**

On the completion of the Course, the students will be able to:

CO1 Enhance the technical knowledge on shape, size, mass & density of earth, age of earth, structure of the earth.

CO2 Understand the concept of mineralogy with special light on sulphides, silicates and oxides minerals.

CO3 Explain the process of petrology and formation of rock.

CO4 Understand the concept of paleontology and stratigraphy & coal and oil belts of India.