

**PRACTICE SET**  
**End Semester Examination, Spring- 2026**

**Program: Diploma**  
**Semester: IV**  
**Subject: Mining Geology II**  
**Subject Code: 8DPCCMiE206**

**UNIT I**

**SECTION A (10 Marks)**

1. Illustrate the difference between fold and faults.
2. Explain how we find out the elements of Fold in open earth surface.
3. Briefly describe about followings
  - a. Normal and Reverse fault
  - b. Sill Dyke & Batholith.
4. Explain the processes responsible for the formation of unconformities. What are the main characteristics used to identify them in the field?
5. Distinguish between true dip and apparent dip, and illustrate your explanation with a suitable diagram.
6. Define a fault. Describe the various types of faults and examine their influence on the outcrop patterns of rock layers.

**SECTION B (20 marks)**

7. Evaluate the processes involved in the development of unconformities. What are the key features used to recognize of recognition them in the field?

**UNIT II**

**SECTION A (10 marks)**

8. Define ore and gangue. Explain their characteristics and importance in economic geology with suitable examples.
9. Define the role of GIS and remote sensing in mineral exploration.
10. Compare how the metallic minerals and Nonmetallic be found in earth surface.
11. Discuss the various processes of ore formation. Explain any three processes in detail with examples.
12. Illustrate the mode of occurrence and distribution of Lead, Zinc & Manganese in India.

**SECTION B (20 marks)**

13. Briefly explain about the Iron ore deposits, Manganese & copper deposits formation.
14. Explain the concept of prospecting. Discuss different methods of prospecting used in mineral exploration

**UNIT III**

### **SECTION A (10 marks)**

15. Define coal rank. And discuss its characteristics..
16. Identify the common minerals found in ores? Which state in India is known as the mineral state of India and why?
17. Explain how coal is formed in nature. Discuss its theories.
18. Compare the Archean and Gondwana systems in terms of their economic importance.
19. State the Vitrain,Clarain,Durain & Fusain in brief
20. Write short notes on Stratigraphy with neat diagram.

### **SECTION B (20 marks)**

21. Discuss the rank of coal also briefly explain about Insitu theory and drift theory in formation of coal.
22. Explain the Geological Time Scale and describe the major divisions with important events.

## **UNIT IV**

### **SECTION A (10 Marks)**

23. Define petroleum. Discuss its physical and chemical properties in detail.
24. Explain the migration and accumulation of petroleum with neat sketch.
25. Explain the origin of petroleum. Describe the organic and inorganic theories of its formation.
26. Explain the factors that contribute to the creation of traps that allow petroleum to accumulate in reservoir rock.
27. What is oil traps? Differentiate the structural & stratigraphic traps in brief.

### **SECTION B (20 Marks)**

28. Explain the migration and accumulation of petroleum in subsurface formations and explain the different types of migration
29. Explain the origin of petroleum. Also mention the role of source rock and reservoir rock in the petroleum origination.

**Prepared by: Prof. Somnath Kumar Rishi**

**Disclaimer:** - This is a Practice set. The Question in End term examination may differ from the Practice set. This Practice set is meant for practice only.