



**Government College (Autonomous), Rajahmundry**  
*(Affiliated to Adikavi Nannaya University)*  
**I B.Sc., GEOLOGY 2024-25 II SEMESTER**  
**Model Question Paper**  
**Course 4: PHYSICAL GEOLOGY AND SOIL SCIENCE**

Time: 2 1/2 Hours  
**50**

**Max.Marks:**

**SECTION - A**

Answer any **FIVE** the following questions. Each question carries **7 Marks**  
**5X7=35M**

1. Describe origin and age of the Earth?
2. Explain different types of Volcanoes with neat diagrams?
3. What are the distribution of earthquake zones in India?
4. Describe the geological work of Wind along with diagrams?
5. Explain the distribution of various soils in India?
6. What are the physical properties of Soils?
7. Define Specific Yield and Specific Retention? And expand Darcy's law?
8. Write about Soil suitability analysis for various land use patterns?

**SECTION - B**

Answer any **FIVE** of the following questions. Each question carries **3 Marks**  
**5X3=15M**

9. Describe physical weathering?
10. Explain different types of depositional landforms by Underground water?
11. Describe zones of metamorphism?
12. Write about symmetry elements of Cubic system?
13. Give a brief notes on Pegmatitic deposits?
14. Draw a neat sketch of Pelecypoda and represent their bodyparts?
15. Give an account of Moh's scale of Hardness?
16. Write a short notes on components of GIS?