



Date: 15-11-2024

Dept. No. 

Max. : 100 Marks

Time: 09:00 am-12:00 pm

**SECTION A****Answer ANY FOUR of the following****4 x 10 = 40 Marks**

1. Explain Elastic rebound theory and how subduction zones are formed.
2. Write a short note on gravity of Earth by relative method.
3. With neat diagram explain gravity analysis using Worden gravimeter.
4. Write a short on Richter scale of magnitude.
5. Distinguish between P-waves and S-waves.
6. With schematic representation, discuss briefly about Horizontal seismograph.
7. Discuss the composites of earth's interior.
8. Briefly explain the working of proton precession magnetometer.

**SECTION B****Answer ANY THREE of the following****3 x 20 = 60 Marks**

9. What is Tsunami? Discuss in detail primary and secondary effect of earthquake.
10. Explain magnetic response of earth by dynamo theory.
11. Give an account on continental drift by plate tectonic theory.
12. Explain Rb-Sr method of age determination of rocks?
13. Write a short note on "Temperature and pressure" with in the earth.
14. Briefly explain geological time scale.

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