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DOON UNIVERSITY, DEHRADUN
End Semester Examination-2023, Second Semester
Academic Year 2023-2024
Department of Geology (NHRSC)
B.Sc. Geology
GEE-104 - SEISMOLOGY

Time Allowed 2.00 Hours

Maximum Marks: 50

SECTION: A

Attempt all questions.

(4 X 5= 20marks)

1. Difference between focus and epicentre
2. Longitudinal and transverse waves
3. Effects of earthquake
4. Young Modulus
5. Poisson Ratio

SECTION: B

Attempt all questions.

(5X4= 20marks)

1. Discuss about the seismic zonation of India.
2. What is seismic shadow zone?
3. What is worldwide standard seismograph network?
4. Discuss why the maximum earthquake occurs in Circum Pacific Belt.

SECTION: C

(10 marks)

5. Discuss about elastic rebound theory. Considering the elastic rebound, a spring is 0.58 meter long, when it is pulled by a force of 4.0 N, it stretches to 0.62 meters. What will be the spring constant?

OR

Describe Alpine Himalayan Belt.