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Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester Integrated M.Sc Geology Degree Examination, November 2023

GL01IB01 - EARTH AND ENVIRONMENT

(2023 Admission onwards)

Time: 2 hours

Max. Marks: 60

*(Draw neat sketches, wherever necessary)***PART - A****Answer all questions.****Each question carries Two mark.****Ceiling -20 Marks**

1. Differentiate Terrestrial planets and Jovian planets?
2. Define lustre and what are the types of lustre?
3. Define petrified fossils and carbon films.
4. Describe plutonic and hypabyssal igneous rocks.
5. What is Tsunami?
6. Differentiate sial and sima?
7. List out two conditions which are favorable for preservation of fossil?
8. Explain the discontinuities inside the earth?
9. Illustrate the Moh's scale of Hardness.
10. Describe the elements of a fold.
11. Distinguish Seismogram and seismograph
12. Differentiate Fluorescence and Phosphorescence?

**PART – B**  
**Answer *all* questions.**  
**Each question carries Five marks.**  
**Ceiling -30 Marks**

13. Briefly explain the Nebular hypothesis and planetesimal hypothesis. State their merits and demerits.
14. What are the different types of plate boundaries?
15. Briefly explain the classification of mountains.
16. Define unconformity and describe the different types of unconformities?
17. How can the age of the Earth be determined using non-radioactive methods? Explain the different non-radioactive methods.
18. Explain Rock cycle with neat sketches.
19. What are the methods used to predict earthquakes? How can earthquake damages be mitigated?

**PART - C**  
**Answer *anyone* question.**  
**Each question carries Ten marks.**

20. What are Volcanoes and how are they formed? Describe the classification, components, and impacts of volcanoes.
21. What does the geological time scale illustrate? Provide an account of the geological time scale.