

**B.Tech. Civil (Water Resources Engineering)**  
**BTCLEVI / BTMEVI / BTELVI / BTECVI / BTCSVI**  
**Term-End Examination**

**December, 2017**

00057

**ET-531(A) : EARTH AND ITS ENVIRONMENT**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any **five** questions. All questions carry equal marks. Well-labelled diagrams will be given due weightage.*

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1. (a) Explain Tidal Hypothesis of the origin of the Earth. When did the Earth get its present shape ? 7
- (b) Explain the importance of atmospheric stratification. 7
2. (a) Explain the process of chemical weathering. What are the ideal conditions for chemical weathering ? 7
- (b) Explain Meanders. What are incised meanders ? 7
3. (a) What are the different types of deserts ? Describe any one of them in detail. 7
- (b) What are the different types of marine deposits ? How do we classify them ? 7

4. (a) How do we record earthquakes ? Explain the effect of energy released at different scales of the Richter scale. 7
- (b) Describe various characteristics of earthquake waves. 7
5. (a) Explain Atmospheric Dynamism. Differentiate between weather and climate. 7
- (b) Briefly explain the cloud formation process. 7
6. (a) What are the different techniques of weather forecasting ? How have forecasts been made precise nowadays ? 7
- (b) Write a short note on Rains over India. 7
7. (a) How do we classify sedimentary rocks ? Explain. 7
- (b) Differentiate between mudstone and shales. How are they formed ? 7
8. (a) Define Ecology. Explain the concept of Food Chain with suitable examples. 7
- (b) What is meant by Biogeochemical Cycle ? Represent any one such cycle, diagrammatically. 7
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