

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

**Term-End Examination**

00293

June, 2018

**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) What is the double-star hypothesis of the Earth's origin ? 7
- (b) What are different components of the hydrosphere ? Explain. 7
2. (a) What are different types of glaciers ? What is the fastest known speed of a glacier ? Also name the glacier. 7
- (b) What are different features of glacial deposits ? What are drumlins ? 7

3. (a) What are regoliths ? What are mass movements ? 7
- (b) Explain important types of slow and rapid mass movement. 7
4. (a) How do earthquakes occur ? Also explain graphical view of reactivation of faults causing earthquakes. 7
- (b) Explain briefly  $2 \times 3 \frac{1}{2} = 7$
- (i) Tsunamis
- (ii) Earthquake zones
5. (a) What is absolute humidity ? How is it different from relative humidity ? What are the effects of variation in relative humidity ? 7
- (b) What is insolation ? Explain Dry Adiabatic Lapse Rate (DALR) and its effects. 7
6. (a) Explain various stages of cyclone formation. 7
- (b) Describe different components of the hydrological cycle. Why is rainfall erratic in India ? 7
7. (a) Explain the mechanism of rock deformation. 7
- (b) What are folds ? Explain their morphology. 7

8. (a) What do you mean by ecological succession ?  
How do environmental factors influence  
succession ? 7
- (b) Explain environmental pollution. What  
are the different sources of environmental  
pollution ? 7
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