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ET-531(A)

**B. TECH. CIVIL (WATER RESOURCE  
ENGINEERING) (BTWRE)**

**Term-End Examination**

**June, 2019**

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

*Time : 3 Hours*

*Maximum Marks : 70*

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*Note : Attempt any five questions. Give neat well  
labelled sketches wherever necessary.*

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1. (a) Explain various components of the hydrologic cycles. How is it important in affecting geological processes? 7
- (b) Briefly describe the differences among ocean, sea, gulf and bay with appropriate examples. 7
2. (a) What are land forms associated with glacial deposits. 7
- (b) Differentiate the formatters of Deltas, raised river terraces and incised meanders. 7

(A-43) P. T. O.

3. (a) Explain the heating process of air. Also define and explain dry adiabatic lapse rate. 7
- (b) How do the following processes take place ? 7
- (i) twinkling
- (ii) mirage
- (iii) rainbow
- (iv) twilight
4. (a) Differentiate between cleavages and fractures. 7
- (b) Explain briefly feldspar and quartz group of rock forming minerals. 7
5. (a) Explain behaviour of materials under stress. 5
- (b) Explain *two* main types of fractures in rocks. 7
6. (a) Differentiate between foliation and lineation. 7
- (b) Explain the division of geological time scale. 7
7. (a) Compare the biotic and abiotic components of ecosystem. 7

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(b) Briefly explain food chain and food web with suitable sketches. 7

8. Write short notes on any *four* of the following :

$4 \times 3 \frac{1}{2} = 14$

- (a) Aquatic ecosystem
- (b) Environmental pollution
- (c) Eutrophication process
- (d) Water conservation
- (e) Pollution control measures