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ET-531(A)

00207

B.Tech. Civil (Water Resources Engineering)

Term-End Examination

June, 2011

ET-531(A) : EARTH & ITS ENVIRONMENT

Time : 3 hours *Maximum Marks : 70*

Note : *Answer **any five** questions. All questions carry **equal** marks. Well - labelled sketches will carry due weightage.*

1. Discuss the following : **2+4+4+4=14**

(a) Types of glaciers ;

(b) Surface features of glaciers ;

(c) Glacial erosion and

(d) glacial deposits

2. Draw a well-labelled diagram of glaciated U-shaped valley with hanging tributaries and valleys as traces of glacial action. **14**

3. (a) Discuss the following : **3+3=6**

(i) Central type volcanic eruptions

(ii) Fissure type volcanic eruptions

(b) Discuss the types of lavas. **3**

(c) Explain what do you understand by dykes with respect to intrusive rocks. **5**

4. Explain what do you understand by : **3+3+4+4=14**

(a) Dry adiabatic lapse rate ;

(b) Temperature Inversion

(c) Mirage

(d) Halos

5. (a) Discuss what are sedimentary rocks ; torrential bedding, and ripple marks. 9

(b) Outline the texture of sedimentary rocks. 5

6. What is understood by : **14**

(a) elements of a fault plane ;

(b) movement along faults ;

(c) classification of faults ; and

(d) active and inactive faults.

7. In the episode of rock formation, discuss :

(a) Gondwana sequence ; **4+4+3+2+1=14**

(b) Talchir Boulder Bed ;

(c) Raj mahal trap ;

(d) Rajamahal intertrappean beds ; and

(e) Deccan trap

8. Write short notes on the following : **4x3½=14**

(a) Ecological niche

(b) structure of water

(c) pollution control

(d) Eparchaean unconformity
