

AE-835

M.Sc. (Final)

Term End Examination, 2016-17

GEOLOGY

Paper - I

Environmental and Hydrogeology

Time : Three Hours] [Maximum Marks : 100

[Minimum Pass Marks : 36

Note : Answer **all** questions. All questions carry equal marks. Draw neat sketches wherever necessary.

Unit-I

1. Discuss about the Cenozoic climate extremes and its impact on human evolution.

OR

Write short notes on the following :

- (a) Reason of Global Warming
- (b) Impact of circulation in atmosphere on climate

(2)

Unit-II

2. Discuss about the mechanism of formation of soil profile. Describe about the various layers of soil profile. Highlight the factors responsible for soil quality degradation.

OR

Write short notes on the following :

- (a) Importance of ice core study in Palaeo Climatology
(b) Impact assessment of groundwater contamination due to urbanisation

Unit-III

3. Describe about the hydrologic properties of rocks.

OR

Write short notes on the following :

- (a) Neo-tectonics
(b) Groundwater occurrence and movement

Unit-IV

4. Describe about the parameters used for suitability of groundwater for human consumption in terms of quality.

OR

(3)

Write short notes on the following :

- (a) Water table contour maps
- (b) Aquifer parameter evaluation

Unit-V

- 5. Discuss about the problems and remedy for salt water invasion in coastal aquifers.

OR

Write short notes on the following :

- (a) Well development techniques
 - (b) Hydrogeomorphological mapping
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