

M.Sc. (Final)  
Term End Examination, 2017-18

## Paper - I

*Time : Three Hours]                      [Maximum Marks : 100*  
*[Minimum Pass Marks : 36*

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

1. Write notes on the following :

- (a) Global warming caused by CO<sub>2</sub>
- (b) Global changes in ecosystem

***OR***

( 2 )

Write notes on the following :

- (a) Time scale of global changes in ecosystem
- (b) Climate changes due to afforestation and fossil fuel consumption.

**Unit-II**

2. Write notes on the following :

- (a) Water logging problems due to canals and reservoirs
- (b) Soil degradation due to use of pesticides and fertilizers

**OR**

Write notes on the following :

- (a) Palaeotemperature evaluation with ice-cores
- (b) Contamination of groundwater due to industrialization

**Unit-III**

3. Write notes on the following :

- (a) Renewable and non-renewable ground-water resources
- (b) Global earthquake belts

**OR**

( 3 )

Write notes on the following :

- (a) Siesmic-hazards
- (b) Sp. yield, Sp. retention, Porosity of rocks

**Unit-IV**

4. Write notes on the following :

- (a) Confined and unconfined aquifers
- (b) Problems of arsenic and fluoride in drinking water

**OR**

Write short answers of the following :

- (a) Hydrostratigraphic units
- (b) Methods of pumping tests

**Unit-V**

5. Write short answers of the following :

- (a) Artificial recharge of groundwater
- (b) Groundwater legislation

**OR**

Write short answers of the following :

- (a) Types of wells
  - (b) Geophysical methods used in groundwater explorations
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