## Third Semester B. Tech. (Civil Engineering)

Winter - 2017

Course Code: CEU 301

Course Name: Engineering Geology and Hydrology

Time: 2 1/2 Hrs. Max. Marks: 60

## Instructions to Candidate

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary and clearly state the assumptions made.
- 3) Diagrams/sketches should be given wherever necessary.
- 4) Figures to the right indicate full marks.
- Describe various hydro-geological conditions 08 which are of primary importance in the selection of a reservoir site. What is silting of reservoir and how can it be checked?
  - Define groundwater recharger? Describe 08 briefly significance of groundwater recharge. Explain with neat sketches, the different artificial methods of groundwater recharge.
  - 3. a) Explain any three of following:

    18

    Physical properties of rock forming minerals;

    11 Classification of sedimentary rock;
    - iii) Tunneling in folded and faulted rocks; and iv) Rainfall-runoff correlation.

joints

Classify and describe the different types of 04