

MTEE-105

M.E./M.Tech., I Semester Examination, June 2020

Hydro Geology

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Explain different drilling methods with sketches for deep and shallow wells and enlist their merits and demerits.
2. Define “water table”. Explain how the water table maps are prepared? What is the use of these maps?
3. a) Explain various method used for ground water inventory.
b) Write a note on Ground water provinces of India.
4. What is artificial recharge of ground water and discuss its role in water management?
5. Define the term “seepage” and explain how it develops? Name and discuss factors that influence seepage.
6. Describe:
 - a) Artificial recharge of ground water reservoirs.
 - b) Ground water trenches, ridges and mounds.
7. a) Explain how testing of yields from wells is done.
b) Describe the procedure for development of wells and design of stainer.
8. Write short notes on: (any four)
 - a) Artesian wells
 - b) Development of well
 - c) Vertical distribution of ground water
 - d) Types of Aquifers
 - e) Free ground water condition
