

Registration No :

--	--	--	--	--	--	--	--	--	--

Total Number of Pages : 01

B.Tech
PECI5409

8th Semester Back Examination 2018-19

WATER RESOURCES MANAGEMENT

BRANCH : CIVIL

Time : 3 Hours

Max Marks : 70

Q.CODE : F042

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

- Q1 Answer the following : (2 x 10)**
- a) How much % of water resource is available on the globe for use of human?
 - b) What do mean by Irrigation scheduling?
 - c) What is the rule curve of a reservoir?
 - d) Write four disadvantages of water resources projects on the environment.
 - e) Write four sources of data for planning of water resources projects.
 - f) Mention two advantages and disadvantages of inter-basin water transfer.
 - g) What is the difference between command area and catchment area of an irrigation project?
 - h) State two interstate and two international agreements on water sharing in India.
 - i) Write four drought management measures.
 - j) When was the first National Water policy implemented? When the same was revised?
- Q2 a) Explain how demand water power is affected in a multi-purpose reservoir due to conflicting demands. (5)**
- b) Considering the peak and non-peak hour power requirements, discuss operation methods of hydropower. (5)**
- Q3 a) Write down various causes of waterlogging. Also state various methods of reclamation of saline lands. (5)**
- b) Describe the differences between confined and unconfined aquifers. (5)**
- Q4 a) Why escapes are provided in irrigation canals? Where should it be located? (5)**
- b) Explain the advantages and disadvantages of lining of irrigation canals. (5)**
- Q5 a) Describe various causes of water pollution. (5)**
- b) Describe various water conservation measures to be taken for effective water management (5)**
- Q6 Describe the present inter-basin water scenario of India. Discuss the probable difficulties for the implementation of present proposals. (10)**
- Q7 What is the effect of sedimentation on the life of a water resources project? Explain various short term and long-term precautions for increasing the life of project. (10)**
- Q8 Write short answer on Any TWO : (5 x 2)**
- a) Participatory Irrigation Management (PIM)
 - b) Riparian Rights
 - c) Conjunctive use of surface and ground water.