

SET B - Module Title- Understanding Water Systems: Aquifers, Rivers, and Ponds

Term Examination

Time - 3 Hour

MM-70

The question paper contains 02 printed pages.

Instruction: Please read all the questions carefully and understand it properly prior to answer the questions. Answer any four questions excluding Q1. Q1 is compulsory for all and carries equal marks for each subset of questions. **Five questions are to be answered in altogether.** Please use diagram, graphs/infographics and table wherever you feel it is necessary.

Q.1. All questions are compulsory in this section and carries equal marks. [10 marks]

- 1) Careful management of water catchment areas results in
 - a. more desertification
 - b. more deforestation
 - c. less waste of water
 - d. more waste of water
- 2) Percentage of Earth surface which is covered by oceans and seas is
 - a. 50%
 - b. 65%
 - c. 85%
 - d. 97%
- 3) Method of desalination in which molecules of water are forced to pass semi-permeable membrane is called
 - a. membrane filtration
 - b. distillation
 - c. cloud seeding
 - d. reclamation
- 4) Process in which water is released in atmosphere by trees is classified as
 - a. deforestation
 - b. desertification
 - c. evapotranspiration
 - d. forestation
- 5) If trees are cut-down, then result will be
 - a. decreased transpiration
 - b. increased transpiration
 - c. decreased pollution
 - d. decreased floods
- 6) Way of removing salt from seawater is classified as
 - a. forestation
 - b. desalination



- c. desertification
- d. reclamation

- Q.2. Write down short notes on any three from the following within 100 words: [15 marks]
- a) Difference between influent streams and Effluent streams
 - b) Aquatic ecosystem
 - c) Ground water quality
 - d) Movement of ground water and Darcy's law
 - e) Per capita demand of Water
- Q.3. Explain your understanding about Hydro-geological Set up of India? [15 marks]
- Q.4. Nitrogen is necessary to maintain the ecosystem. In contact to our country how far is it
- Q.5. What do you understand by the following terms: Aquifer, Aquiclude, Aquitard, Aquifuge. [15 marks]
- Q.6. what should be the realistic approach to design a water policy at the national level? Do you feel that the state government and central government must have separate water policy in our country? Justify your answer, why? [15 marks]
- Q.7. What do you understand by water budgeting? Explain with its components and stages? [15 marks]
- Q8. Explain your overall understanding on water policy 2012 designed by Government of India. [15 marks]
- Q.9. What are the aquifers parameters necessary to understand the water system? Explain. [15 marks]

