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**MEEM-301(A)**

**M.E./M.Tech., III Semester**

Examination, June 2020

**Water and Waste Water Treatment**

(Elective-I)

*Time : Three Hours*

**Maximum Marks : 70**

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Name seven major methods of neutralization agents both acid and alkali waste.  
b) What are the control systems of pH waste water?
2. Explain following secondary treatment process in short
  - a) Waste water microbiology
  - b) Aeration
3. a) Briefly explain about activated sludge process.  
b) Explain about the trickling filter process.
4. What are the different stages of waste water treatment plant? Explain in detail about the secondary treatment in waste water.
5. What is sedimentation? What are various issues which hamper sedimentation process? Discuss ways to settle the issues.
6. a) What is mean by Equalization?  
b) What is the purpose of Equalization? And explain the different methods of Equalization.

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7. What is object of sewage treatment? Distinguish between fresh sewage, stale sewage and septic sewage.
8. Write short notes on any two:
  - a) Sludge incineration
  - b) Neutralization agents and process
  - c) Flow measurement techniques

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