

Roll No

MTEE-202**M.E./M.Tech., II Semester Examination, June 2020****Waste Water Treatment - II****Time : Three Hours****Maximum Marks : 70**

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

1. a) Discuss the role of micro-organism in biological unit process. 7
b) Discuss knotless of biological growth. 7
2. a) Explain the treatment processes of aerobic and attached growth. 7
b) Discuss kinetic and stanchion-metric parameter. 7
3. Describe the process of attached growth reactors with neat sketch. 14
4. Explain the working principle of trickling filter treatment. 14
5. a) Explain the components of anaerobic reactions that influence process design. 7
b) List any four sludge de-watering methods and discuss the relative merits and demerits of any one. 7
6. a) Discuss anaerobic sludge digestion process. 7
b) Write a note on sludge sources. 7
7. a) What do you meant by heat drying composting explain in detail? 7
b) Explain the concept and principles of carbon oxidation. 7
8. a) Explain the process of Nitrogen conversion and removal. 7
b) Discuss De-Nitrification methanogenesis. 7
