

## MTEE-201

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

### Water Treatment - II

Time : Three Hours

Maximum Marks : 70

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

1. a) Discuss different methods of disinfection. 7  
b) Explain effect of different parameters on disinfection efficiency. 7
2. a) What are cause and type of adsorption? 7  
b) Write a note on Designing of mixed bed absorber. 7
3. a) Discuss the factors influencing adsorption of mixing solute. 7  
b) Explain batch and continuous system. 7
4. a) Explain various properties of cellulose acetate membrane. 7  
b) Discuss concentration polarization application. 7
5. a) Write a short note on gas transfer in aeration process. 7  
b) Explain in detail factor affecting oxygen transfer rate. 7
6. a) Write a note on 7  
i) Electro-dialysis  
ii) Desalination  
b) What is oxygen sag curve in stream pollution? Explain with neat sketch. 7
7. a) Discuss the purpose of advanced water treatment. 7  
b) Discuss the Feed temperature and pH. effect on process of membrane. 7
8. Write short notes on (any three): 14  
i) Ionized water  
ii) Hexagonal water  
iii) Ionizer ozonation  
iv) Transfer correlation  
v) Reverse osmosis

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