

S-691

Total Pages : 3

Roll No.

ESC-603

Water and Waste Water Treatment Technologies-I

M.Sc. Environmental Science (MSCES)

3rd Semester Examination, 2022 (Dec.)

Time : 2 Hours]

[Max. Marks : 35

Note : This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION-A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. What are the operations and maintenance of slow sand filters? Explain in detail.

2. What is chlorination process? Discuss in detail.
3. Discuss in detail about the analysis of sewage.
4. Explain in detail about the process of sludge disposal.
5. What is well? Describe the various types of wells in detail.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Describe the physical test to know the water quality.
2. Explain in detail about the design of rapid sand filter.
3. Discuss about the factors influencing the disinfection.
4. Describe about the skimming tank in detail.
5. Explain in detail about the procedure of solid waste management in small town.

6. Write a brief account of spray aerators.
 7. What are cement concrete and RCC pipes? Discuss its advantages and disadvantages.
 8. Discuss about the washing of filter bed, wash water gutter and outlet.
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