

## Unit 4 - Week 3

### Course outline

#### How to access the portal?

#### Week 1

#### Week 2

#### Week 3

● Lecture 17 : Introduction to liquid waste treatment technologies

● Lecture 18 : Decentralized Waste Water Treatment system - an Introduction

● Lecture 19 : Case studies - Decentralised waste water treatment

● Lecture 20 : Decentralized waste water treatment systems plan for Apappuzha

#### ○ Quiz : Assignment 3

○ Weekly Feedback

#### Week 4

#### Live Sessions

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## Assignment 3

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2019-08-21, 23:59 IST.**

The lectures focus on the theoretical aspects of the various technological options available for waste water treatment. The practical aspects especially the planning part are discussed taking Alappuzha town (Kerala) as a case study.

1) What is the function of Anaerobic baffle reactor? 1 point

- Maximize the contact between fresh waste water and activated sludge  
 Aerobic decomposition of sludge  
 Biological stabilization of only suspended solids  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Maximize the contact between fresh waste water and activated sludge*

2) The following statement is True or False. 1 point

Requirement of heavy pumping machinery is one of the major drawbacks in decentralized wastewater treatment systems.

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*False*

3) The reason(s) behind deterioration of canals (network) in Alappuzha town 1 point

- Increasing importance of road network  
 Lack of awareness among people  
 Increasing solid and liquid waste disposal  
 All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*All of the above*

4) The following statement is True or False. 1 point

Sub canals, main drains and sub drains need to be cleaned to tackle pollution in main canals.

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*True*

5) Screens placed at 200 to 250 meter stretch in the canals can help the canal committees in 1 point

- Managing their stretch of the canal  
 Collecting the accumulated solid waste and disposing it responsibly  
 Demotivating further dumping of waste  
 All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*All of the above*

6) The following statement is True or False 1 point

Knowledge of Biochemical Oxygen Demand and Chemical Oxygen Demand values of the waste water sample can help in deciding the technology option to be adopted for the treatment

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*True*

7) The standard Biochemical Oxygen Demand of effluent discharge is set to be 30 mg/liter because 1 point

- The water bodies have this much capacity to clean  
 The cost to treatment increases as we push the limits lower  
 This standard meets with the drinking water standard  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*The water bodies have this much capacity to clean  
The cost to treatment increases as we push the limits lower*

8) The following statement is true or false. 1 point

High concentration of Biochemical Oxygen Demand (BOD) in less volume of water is more difficult to treat than the diluted BOD in high volume of water

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*False*

9) The following statement is True or False. 1 point

Septic tank follows aerobic decomposition

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*False*

10) Type of sewer system found to be preferred in India is : 1 point

- Separate Sewer Systems  
 Combined Sewer Systems

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Combined Sewer Systems*

11) Primary treatment unit aims for removal of 1 point

- Dissolved Solids  
 Suspended Solids  
 Settleable Solids  
 All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Suspended Solids*

12) Does the primary treatment unit remove some BOD? 1 point

- Yes  
 No

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Yes*

13) The activated sludge treatment unit is based on 1 point

- Suspended growth of biomass  
 Attached growth of biomass  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Suspended growth of biomass*