

## WASTEWATER TREATMENT OPERATOR CERTIFICATION EXAM 2023-2024 ACTUAL EXAM 200 QUESTIONS AND CORRECT DETAILED ANSWERS WITH RATIONALES|ALREADY GRADED A

Digester gas is\_\_\_\_\_when mixed with air the the proper proportions -  
ANSWER- extremely explosive

Wastewater Treatment Facilities:

A pond that is used to treat raw wastewater is called - ANSWER- a  
waste stabilization pond

Wastewater Treatment Facilities:

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A pond that has an aerobic top layer and an anaerobic bottom layer is  
called - ANSWER- a facultative pond

Preliminary Treatment:

What is the angle of the bars on a manually cleaned bar screen? -  
ANSWER- 30 degrees

Preliminary Treatment:

What is the angle of the bards on a mechanically cleaned bar screen -  
ANSWER- 45-60 degrees

Preliminary Treatment:

What is the ideal wastewater velocity in FPS through a screen channel? -  
ANSWER- 1.5ft/s

Preliminary Treatment:

What is the ideal wastewater velocity in FPS for grit removal in a grit chamber - ANSWER- 1.0 ft/s

Preliminary Treatment:

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In general, what is the water content of screen material - ANSWER-  
80%

Preliminary Treatment:

What is the wastewater velocity range in FPS for grit removal in a grit chamber? - ANSWER- 0.7 - 1.4 ft/s

Racks, screens, comminutors and Grit removal:

Which one of the following chemicals gives water its greatest capacity to neutralize acids? - ANSWER- hydroxide

Racks, screens, comminutors and Grit removal:

The bar rack is used - ANSWER- when the bar screen is out of service

Primary Sedimentation:

Typically, what is the average detention time for wastewater in a primary clarifier? - ANSWER- 2 hr

Sedimentation and Flotation:

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Name one gas this irritates the "eyes" - ANSWER- chlorine

Primary Sedimentation:

Activated sludge clarifiers accept material to be settled from - ANSWER- an aeration tank

Primary Sedimentation:

According to CWA, secondary treatment is defines as a wastewater plant producing an effluent that has no more than \_\_\_ total suspended solids and no more than \_\_\_ BOD5 - ANSWER- 30 mg/L, 30 mg/L

Primary Sedimentation:

The color of bio film on a rotating Biological Contactor would appear \_\_\_ under normal operating conditions - ANSWER- gray

Activated Sludge:

A primary effluent and returned activated sludge mixture is called - ANSWER- waste activated sludge

Activated Sludge: [learnexams](https://www.learnexams.com)

The mixture of organisms and solids in water that is removed from the settling tank is called - ANSWER- mixed liquor

Activated Sludge:

Under normal operating conditions, what color is activated sludge - ANSWER- dark chocolate brown

Activated Sludge: