Chemical Characteristics of Wastewater

Fresh sewage is _____ in nature and with the passage of time, it becomes _____

(A) alkaline, acidic

(B) acidic, alkaline

(C) pH neutral, acidic

(D) pH neutral, alkaline

ANSWER: (A) alkaline, acidic

Nitrogen is present in the wastewater in the form of

(A) Free ammonia
(B) Organic nitrogen and albuminoid nitrogen
(C) Nitrites and nitrates
(D) All of the above

ANSWER: (D) All of the above

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For aquatic life in water to sustain, its essential that water should have minimum DO level as

(A) 1 ppm

(B) 2 ppm

(C) 3 ppm

(D) 4 ppm

ANSWER: (D) 4 ppm

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_____ is the main by product of anaerobic decomposition of organic matter present in wastewater

(A) Ammonia

(B) Carbon dioxide

(C) Methane

(D) All of the above

ANSWER: (C) Methane

Organic ammonia present in the water is determined by

(A) Hoffner's method

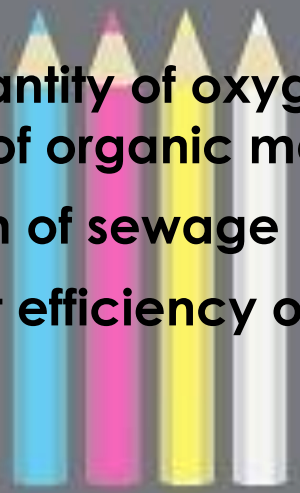
(B) Winkler's method

(C) Kjeldahl method

(D) All of the above

ANSWER: (C) Kjeldahl method

Biochemical Oxygen Demand (BOD) is carried out for



(A) Determining the quantity of oxygen required for biological stabilization of organic matter

(B) Determining strength of sewage

(C) Assessing treatment efficiency of various treatment units

(D) All of the above

ANSWER: (D) All of the above

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Generally, BOD of a wastewater sample is expressed for _____ days and _____ °C temperature

(A) 5, 25

(B) 3, 20

(C) 5, 20

(D) 3, 25

ANSWER: (C) 5, 20

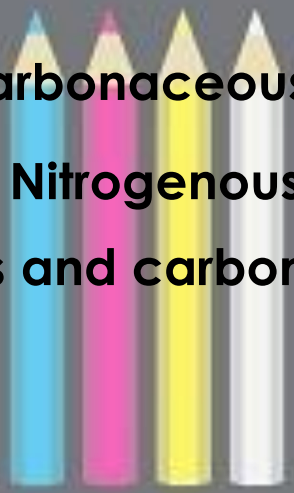
In first stage BOD and second stage BOD, organic matter that is oxidized is _____ and _____ respectively

(A) Nitrogenous and Carbonaceous

(B) Carbonaceous and Nitrogenous

(C) Non-carbonaceous and carbonaceous

(D) None of the above



ANSWER: (B) Carbonaceous and Nitrogenous

Ratio of 5 day BOD to ultimate BOD is

(A) 1/4

(B) 2/3

(C) 3/4

(D) 1.0

ANSWER: (B) 2/3

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