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Chemical Characteristics of Wastewater

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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

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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

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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

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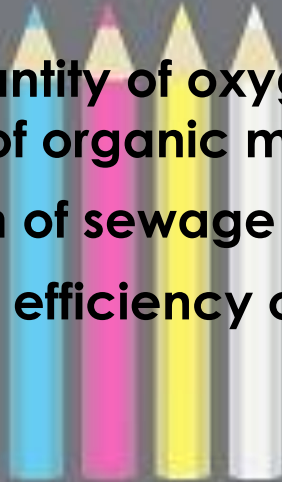
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Biochemical Oxygen Demand (BOD) is carried out for

- (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

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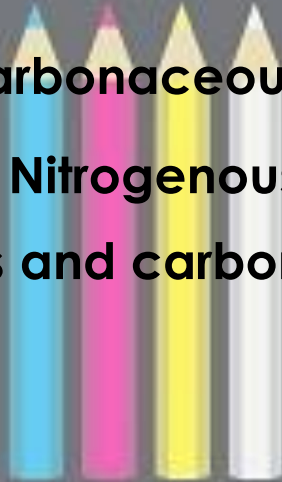
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In first stage BOD and second stage BOD, organic matter that is oxidized is _____ and _____ respectively

- (A) Nitrogenous and Carbonaceous
- (B) Carbonaceous and Nitrogenous
- (C) Non-carbonaceous and carbonaceous
- (D) None of the above



ANSWER: (B) Carbonaceous and Nitrogenous

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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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