INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Date: FN / AN Time: 2 Hrs. Full Marks: 30 No. of Students: 140

Autumn Mid-Semester, 2010-2011 Sub No. EV 20001

B.Tech. Subject Name: Environmental Science

SECTION - I

Answer all questions

Q.1. Answer the following:

a) Explain 'break-point chlorination curve'.

b) What are the functions of 'acidogonic bacteria' and 'methane forming bacteria' in anserobic biological treatment plants?

c) What are the compounds those come under 'oil and grease'? What are the effects of this particular group on the environment?

d) Discuss the reactions involved in DO determination by Winkfer's method?

e) What do you mean by gravimetric analysis? Name and explain one analysis that is done using this procedure.

 $(5 \times 2 = 10 points)$

Q.2.

a) The following information is available for a seeded 5-day BOD test conducted on a wastewater sample. Fifteen ml of the waste sample was added directly into a 300-mL BOD incubation bottle. The initial DO of the diluted sample was 8.8 mg/L and the final DO after 5 days was 1.9 mg/L. The corresponding initial and final DO of the seeded dilution water was 9.1 and 7.9 mg/L respectively. What is the 5-day BOD (BOD₅) of the wastewater sample?

b) Nitrogen gas in the atmosphere will dissolve in natural bodies. Using the Henry's law constant as 1610 atm/mol/i (at 25 °C) and the composition of the atmosphere at 78 % nitrogen, calculate the concentration (in mg/l) of N₂ that would be expected in pure water at 25 °C. The vapor pressure of water at 25 °C is 0.03 atm.

Life Science2014 Paper

Richard Bailey

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THE GLASS MENAGERIE, [MUSIC: 'THE GLASS MENAGERIE' UNDER FAINTLY. Lightly.] Not one gentleman ... [MUSIC: ' THE GLASS MENAGERIE". He stretches out his hand.] Oh, be careful - if ... The Glass Menagerie book script of the play. [SCREEN LEGEND: 'OÙ SONT LES NEIGES."] There was young Champ Laughlin who later became vice-president of the Delta Planters. Bank. The Glass Menagerie - Tennessee Williams (AMANDA exits through living-room curtains. TOM is left with LAURA. He stares at her stupidly for a moment. Then he crosses to shelf holding glass menagerie. The Glass Menagerie Amanda Wingfield is a faded, tragic remnant of Southern gentility who lives in poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams - The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a

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