## B.Tech. Degree VIII Semester (Supplementary) Examination, September 2006

## CE 803 A/B (D) INDUSTRIAL WASTE ENGINEERING AND MANAGEMENT

(2002 Admissions)

Time: 3 H	Iours	Maximum Marks: 100	
(All questions carry <u>EQUAL</u> marks)			
I a			
	Explain in detail:  (i) Strength reduction tech  (ii) Equalization of wastes		
III a		md find the time at which dissolved oxygen  = 47.4 mg/l = 1.05 mg/l = 0.29/day = 2.8/day	
IV	Write short note on:  (i) Ocean disposal  (ii) Assimilation capacity of the control of the contr	- f stream	
V a b c	<ul> <li>Explain the principle of activated sludge</li> <li>Explain the various types of activated sludge</li> </ul>	Explain how waste treatment can be achieved using ion exchange and reverse osmosis.  Explain the principle of activated sludge process.  Explain the various types of activated sludge process with sketches.  OR	
VI a	With the aid of a neat sketch explain the of sedimentation with coagulation unit.	With the aid of a neat sketch explain the different functional components of a	
VII a			
VIII	Explain the characteristics of the waste w  (i) Pharmaceutical plant  (iii) Fertiliser plant		
IX	Discuss the following mechanism used fo  (i) Gravitational settling  (ii) Centrifugal impaction  (iv) Inertial impaction  (v) Direct interception  (vi) Diffusion  OR		
X a	) Explain how bio filteration controls volat	ile organic compound emissions.	

