Reg. No.:	
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Question Paper Code: 50091

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

One Credit

Chemical Engineering

15UCH870 - WASTE RECYCLING FROM PULP AND TEXTILE MILLS

(Regu	lation 2015)				
Duration: Three hours	Maximum: 30 Marks				
Answer .	ALL Questions				
PART A - ($10 \times 1 = 10 \text{ Marks})$				
1. Removal of pathogens from wastewater is					
(a) Preliminary treatment(c) Secondary treatment	(b) Primary treatment(d) Tertiary treatment				
2. BOD is					
(a) Biochemical oxygen demand(c) Total oxygen demand	(b) Chemical oxygen demand(d) None of these				
. Ionic strength of a solution is a measured of concentration of					
	s (b) Dissolved inorganic constituents ts (d) Dissolved physical constituents				
. A filtration step is used to separate the total suspended solids from					
(a) Total volatile solids(c) Total dissolved solids	(b) Total fixed solids(d) volatile suspended solids				
5. Absorbance is denoted by					

(b) log (I/Io)

(c) log (Po/P)

(b) absence of oxygen

(d) Presence of inertgases

(d) log (P/Po)

(a) log (Io/I)

6. Aerobic digestion is a process happens in

(a) Presence of oxygen

(c) Presence of nitrogen

7.	Aerobic digestion and nitrification stops when the temperature rises above								
	(8	a) 15°c	(b) 20°c	(c) 50°c	(d) 70°c				
8.	Trace quantities of metals such as cadmium, chromium are classified as								
	(a) Primary pollutants(c) Secondary pollutants		(b) priority pollutants(d) Tertiary pollutants						
9.	Surfa	ctant is a typical ex	cample for						
	(a) Biodegradable organics(c) Heavy metals			(b) Dissolved inorganics(d) Refactory organics					
10.	0. Brain damage is a cause of presence of								
	(8	a) Cadmium	(b) Barium	(c) Selenium	(d) lead				
PART - B ($20 \times 1 = 20 \text{ Marks}$)									
11.	(a) (i) What are the par	rameters analyze	d in waste water from	n paper industry.	(10)			
	(ii) Explain the activated sludge process with a neat diagram.								
				Or					
	(b) (i) Explain the anaerobic digestion process.								
	(ii) What are the parameters analyzed for a effluent from a textile mill.								