NMAM INSTITUTE OF TECH	IOLOGY, NITTE (Section: A-E)
me: 1 Hour B.E. (Credit System) Mid Semester I	VTU, Belgaum)
Me: 1 Hour (An Autonomous College under CY110 - ENGINEERING CHEN	Sxaminations – II April 2009
Note: Answer any ONE question from	Marks:30
a) Give the	The Galon Farth
a) Give the construction and working of H <sub>2</sub> -O <sub>2</sub> fuel cell. b) Write notes on (i) Sacrificial and the second seco	
b) Write notes on (i) Sacrificial anode (ii) Pitting corrosic	(5)
Writat is metal finishing? Mention the technology	on (5)
c) What is metal finishing? Mention the technological impo	ortance of metal finishing. (5)
a) Indicate the advantages of fuel cells. Explain the constru	·
fuel cell tuel cells. Explain the constru	uction and working of CH₃OH-O₂
b) Explain the effect of the following factors on the rate of corresion product	
(i) Nature of corrosion product (ii) Humidity.	corrosion
c) Explain the anodizing of aluminium.	
Part-II	
a) Explain the method of determination of alkalinity by indic	cators method. (6,1)
desalination? Discuss the purification of water	by reverse osmosis process. (5)
Appendite the COD effluent sample when 25 cm <sup>3</sup>	of the effluent requires 10.5 cm <sup>3</sup>
51 0.005 M K₂Cr₂O <sub>7</sub> for complete oxidation.	(4)
in the method of determining sulphate content in	
Describe the hot-lime soda process for softening of her	
20 cm <sup>3</sup> of a sample of COD analysis was reacted with 1	10 cm <sup>3</sup> of 0.25 N K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> required 6.5 cm <sup>3</sup>
of 0.10 N FAS solution. 10 cm <sup>3</sup> of same K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> and 20	cm <sup>3</sup> of distilled water under the
same condition as the sample requires 26.0 cm <sup>3</sup> of 0.10	0 N FAS.
What is the COD of the sample?	(;
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