7R:	$7R$ $7R$ $7R$ $7R$ $7R$ $\frac{7R}{R13}$
7R	Code No: 111AE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year Examinations, May - 2018 ENGINEERING CHEMISTRY (Common to CE, EEE, ME, ECE, CSE, EIE, IT, MCT, ETM, MMT, AE, AME, MHE, PTM, AGE) Max. Marks: 75
7R	Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART- A (25 Marks)
7R 7R	1.a) Write the cell notation for Calomel Electrode. (2) (3) (3) (4) (5) (4) (5) (5) (5) (6) (7) (8) (8) (8) (9) (9) (9) (9) (9) (10) (10) (10) (10) (10) (10) (10) (10
· 72	 Explain determination of pH by using Calomel electrode. What is a fuel cell? Describe construction and working principle of Hydrogen-Oxygen fuel cell. Describe mechanism of electrochemical corrosion by taking Rusting of Iron as an example. Write a note on sacrificial anodic method.
7R	 4.a) Differentiate between addition and condensation polymerization. b) Give preparation, properties and engineering applications of i) Nylon:6 ii) Dacron iii) Bakelite OR 5.a) What are conducting polymers write the classification and applications. b) Give the applications of Nano materials. [6+4]
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