

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

First Semester B.Tech Degree Regular and Supplementary Examination December 2020 (2019 scheme)

Course Code: CYT100**Course Name: ENGINEERING CHEMISTRY
(2019-Scheme)**

Max. Marks: 100

Duration: 3 Hours

PART A**Answer all questions, each carries 3 marks.**

Marks

- | | | |
|----|--|-----|
| 1 | What will be the standard electrode potential of $\text{Ni}^{2+} / \text{Ni}$ electrode if the cell potential of the cell $\text{Ni} / \text{Ni}^{2+}(1\text{M}) // \text{Cu}^{2+}(0.1\text{M}) / \text{Cu}$ is 0.59 V at 25 °C?
$E^\circ_{\text{Cu}^{2+}/\text{Cu}} = 0.34 \text{ V}$ | (3) |
| 2 | Briefly explain the principle of electroless plating. | (3) |
| 3 | Give the mechanism of interaction of electromagnetic radiation with oscillating dipole. | (3) |
| 4 | State Beer-Lambert's law and write the differential form. | (3) |
| 5 | Write any three differences of TGA and DTA. | (3) |
| 6 | Explain sol-gel method for the synthesis of nano particles | (3) |
| 7 | Determine the configuration of the following alkenes as E or Z: | (3) |
| | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> $\begin{array}{c} \text{H}_3\text{C} \quad \quad \text{CH}_2\text{OH} \\ \diagdown \quad \diagup \\ \text{C} = \text{C} \\ \diagup \quad \diagdown \\ \text{H} \quad \quad \text{Cl} \end{array}$ <p>A</p> </div> <div style="text-align: center;"> $\begin{array}{c} \text{C}_6\text{H}_5 \quad \quad \text{COOH} \\ \diagdown \quad \diagup \\ \text{C} = \text{C} \\ \diagup \quad \diagdown \\ \text{H} \quad \quad \text{CH}_3 \end{array}$ <p>B</p> </div> </div> | |
| 8 | Mention any three advantages of OLEDs over LED and LCD. | (3) |
| 9 | Explain disinfection by chlorination. | (3) |
| 10 | Compare BOD and COD. | (3) |

PART B**Answer one full question from each module, each question carries 14 marks****Module-I**

- | | | |
|----|--|------|
| 11 | a) Explain the mechanism of electrochemical corrosion in different environmental conditions. | (10) |
| | b) How is the cell constant of a conductivity cell measured? | (4) |

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