

GANADIPATHY TULSI'S JAIN ENGINEERING COLLEGE - KANIYAMBADI

Continuous Internal Assessment Test – I - OCTOBER 2025

First Year / First Semester - Branch: CSE, ADS, ECE, EEE

CY25C01- Applied Chemistry - I

Time: 1 Hr. 30 Mins

Answer all the questions

Max: 50 Marks

PART - A

(5*2= 10 MARKS)

1. Define Taste and Odour?
2. What is BOD with its Significance?
3. What are Scales and Sludges?
4. What is Nano chemistry?
5. Mention four uses of CNTs?

PART- B

(2*13=26 MARKS)

6. (a) Describe De-mineralization Process of water softening. Explain the reactions involved with Neat Diagram?

(OR)

(b) Explain briefly about Municipal Water Treatment (Or) Treatment of Water for Domestic Supply?

7. (a) Discuss the CVD and Laser Ablation techniques for the synthesis of Nanoparticles?

(OR)

(b) Explain about Size Dependent properties of Nano Materials?

PART- C

(1*14=14 MARKS)

8. (a) Explain the following boiler troubles suggesting the remedial methods:

(i) Caustic embrittlement (7) (ii) Sludge and Scale formation (7)

(OR)

(b) Write the applications of Nano Materials in Medicine and Agriculture?

***** ALL THE BEST*****