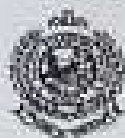


R20CY01(R-20)



Reg No:

--	--	--	--	--	--	--	--	--	--

**Bapatla Engineering College:: Bapatla**(Autonomous)

Department of Chemistry

Mid-Term Examination-II

1/4 B.Tech EEE

Engineering Chemistry

20-EE203

05-08-2022

Time: 90 minutes

Maximum: 35 marks

**Question No.1 compulsory (1X7 = 7 M) ; Answer ONE Question from each unit (2X14 = 28 M)**

1. Answer all questions

(1X7 = 7 Marks)

- |   |     |     |    |
|---|-----|-----|----|
| a. Define Net calorific value (NCV)                     | CO3 | BL2 | 1M |
| b. What are the units of calorific value                | CO3 | BL2 | 1M |
| c. Name the apparatus used for the analysis of flue gas | CO3 | BL1 | 1M |
| d. Write the main constitution of LPG                   | CO3 | BL2 | 1M |
| e. Define conducting polymer                            | CO4 | BL1 | 1M |
| f. Write any two applications of PVC                    | CO4 | BL1 | 1M |
| g. Define plastic                                       | CO4 | BL2 | 1M |

**UNIT – III**

- |  |     |     |     |
|--|-----|-----|-----|
| 2.a Describe the construction and working of Bomb calorimeter with neat label diagram. | CO3 | BL3 | 10M |
| 2.b Write a note on ranking of coal.   | CO3 | BL1 | 4M  |
- (OR)
- |  |     |     |    |
|--|-----|-----|----|
| 3.a Explain the short notes on CNG   | CO3 | BL2 | 7M |
| 3.b Write short notes on refining of crude oil. What are the various fractions obtained from petroleum? Mention the uses of various fractions. | CO3 | BL1 | 7M |

**UNIT – IV**

- |  |     |     |    |
|--|-----|-----|----|
| 4.a Generate the method of synthesis and properties of "Paracetamol "                | CO4 | BL3 | 7M |
| 4.b What is Markownikoffs rule? Explain the mechanism of addition of HBr to propene. | CO4 | BL3 | 7M |
- (OR)
- |  |     |     |    |
|--|-----|-----|----|
| 5.a Compare thermoplastics & thermosetting resins  | CO4 | BL3 | 7M |
| 5.b Explain the preparation and applications of Polyhydroxybuterate-co-β-hydroxyvalerate (PHBV). | CO4 | BL1 | 7M |