1/4 B.Tech ECE,CSE ,IT and EIE	Engineering Chemistry	20EC103/20CS103/20IT-103/20EI103
Time: 11:15 AM-12:45 P.M	Max. Marks: 35	30-03-2022

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

I. Answer all questions (1X7 = 7 Marks)

a.	Name the highest ranked coal	CO3	BL2	1M
b.	What are the units of calorific value	CO3	BL1	1M
c.	Illustrate the examples of the anti-knocking agent	CO3	BL1	1M
d.	What are the advantages of CNG	CO3	BL2	1M
e.	Describe biodegradable polymers? Give example	CO4	BL1	1M
f.	Define addition reaction	CO4	BL1	1M
g.	Define thermoplastics	CO4	BL3	1M

UNIT – III

2. a	Compose the construction and working of Bomb calorimeter with neat label diagram.	CO3	BL3	7M
2.b	Write short notes on LPG	CO3	BL2	7M

(OR)

3.a	Explain briefly about octane number.	CO3	BL2	7M
3.b	Define flue gas, How the analysis of flue gas is done by Orsats apparatus. Write its significance	CO3	BL1	7M

UNIT – IV

4.	Generate the method of synthesis, properties and applications of "Aspirin and Paracetamol "	CO4	BL3	14M

(OR)

5.a	Synthesis, properties and applications of Polyhydroxybuterate-co-β-hydroxyvalerate (PHBV)	CO4	BL3	7M
5.b	What is Markownikoff's of rule? Explain the mechanism	CO4	BL1	7M