Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2021

Course: Polymer Science and Engineering

Semester: VIII Time 03 hrs.

Program: B. Tech (CERP) **Course Code:** CHCE 3011P

Max. Marks: 100

Instructions:

SECT	ION	N-A	
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(Answer all the questions)				
S. No.	Jo.		CO	
Q 1 Describe the mechanism of cationic addition polymerization		10	CO2	
Q 2 Describe the concept of Number average molecular weight and weight average molecular weight		10	CO4	
Q 3 Discuss in detail about the nomenclature of polymers		10	CO1	
Q 4 List out various advanced polymerization methods. Describe Atom Transfer Radical Polymerization		10	CO2	
Q 5	Discuss about free radical copolymerization	10	CO3	
Q 6 List out various types of polymer degradation. Discuss about mechanical degradation		10	CO5	
SECTION-B				
(Answer all the questions)				
Q 7	Explain condensation polymerization when (a) No catalyst is added, and (b) When catalyst is added	20	CO1	
Q 8	Discuss about Emulsion polymerization in detail	20	CO3	