Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2021

Course: Polymer Science and Engineering

Semester: VI Time 03 hrs.

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

Max. Marks: 100

Instructions:

SECTION-A
(Answer all the questions)

S. No.		Marks	CO	
Q 1	Explain condensation polymerization when No catalyst is added	10	CO1	
Q 2	Describe the concept of Number average molecular weight and weight average molecular weight	10	CO4	
Q 3	Discuss in detail about the classification of polymers	10	CO1	
Q 4	List out various advanced polymerization methods. Describe Group Transfer Polymerization	10	CO2	
Q 5	Discuss about reactivity ratios and copolymerization behaviour	10	CO3	
Q6	List out various types of polymer degradation. Discuss about oxidative degradation	10	CO5	
SECTION-B				
(Answer all the questions)				
Q 7	Describe the Kinetics of Free radical addition polymerization	20	CO2	
Q 8	Discuss about Emulsion polymerization in detail	20	CO3	