		Reg. No. :							
Question Paper Code: 53901									
B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020									
Third Semester									
Chemical Engineering									
15UCH301 - INTRODUCTION TO CHEMICAL ENGINEERING									
Dur	ation: One hour	(Regulati	n 2015) Maximum: 30 Marks						
PART A - $(6 \times 1 = 6 \text{ Marks})$									
(Answer any six of the following questions)									
1.	Who is regarded as Fath	ner of Modern Chem	nistry	CO1- R					
	(a) Rutherford	(b)Einstein	(c) Lavoisier	(d) C.V.Raman					
2.	With increase in temper	ncrease in temperature, viscosity of a liquid							
	(a) Decreases (b) Increases (c) Remains constant (d) May increase or Decrease								
3.	The gas constant (R) is equal to the of two specific heats.								
	(a) Product	(b)Difference	(c) Sum	(d) Ratio					
4.	The substance which unchanged is	alters the rate of	chemical reaction and	remains CO2- U					
	(a) Reactant	(b) Product	(c) Catalyst	(d) Inhibitor					
5.	Statement 1: Evaporation is considered a mass and heat transferCO3-operation.Statement 2: After evaporation, solids are left behind.CO3-								
	(a) True, False	(b) True, True	(c) False, False	(d) False, True					
6.	Sulfuric acid is manufa	ctured with help of		CO3- R					
	(a) Haber process	(b) Contact Process	(c) Complex reaction	(d) Redox Reaction					
7.	The software CFD stand	ds for		CO4- R					
	(a) Computational Fluid	l Dynamics	(b) Chemical Fluid Des	ign					
	(c) Chemical Fluid Dynamics		(d) None of the above						

8.	The science which dea		CO4- R					
	(a) Food Science	(b) Nutrition	(c) Food Processing	(d) Food Tech	nology			
9.	Methanol decomposes	to form hydrogen and	which is the other prod	uct?	ct? CO5- R			
	(a) Carbon monoxide	(b) Carbondioxide	(c) Carbon	(d) All of the a	bove			
10.	Oxidation of natural gas produce what? CO:				CO5- R			
	(a) Formaldehyde	(b) Acetaldehyde	(c) Methanol	(d) All of the a	bove			
	PART – B (3 x 8= 24 Marks)							
(Answer any three of the following questions)								
11.	Discuss the role of chemical engineers in process industries .				(8)			
12.	What are the component wi	in CO2-U	(8)					
13.	Explain in detail about the manufacture of sulphuric acid.				(8)			
14.	Elaborate the Role Engineering.	of Computer and	Software in Chemi	cal CO4- U	(8)			
15.	Elaborate in detail about Paradigm Shift in Chemical Engineering				(8)			