


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b>			
<b>End Semester Examination, May 2020</b>			
Programme Name: B.Tech ADE		Semester : VIII	
Course Name : Rapid Prototyping and Tooling		Time : 03 hrs	
Course Code : MEEL 413		Max. Marks: 100	
Nos. of page(s) : 1		Instructions:	
<b>SECTION A</b>			
S. No.		Mar ks	CO
Q 1	Discuss about the errors in STL format.	6	CO3
Q2	Explain the concept of Tessellation.	6	CO3
Q3	Write the advantages and disadvantages of Stereolithography?	6	CO2
Q4	Discuss the concept of Slicing.	6	CO3
Q5	Describe the benefits and limitations of Rapid Prototyping.	6	CO1
<b>SECTION B</b>			
Q6	Classify rapid prototyping process.	10	CO1
Q7	Discuss the concept of Flexible Manufacturing System (FMS).	10	CO1
Q8	Discuss the Process chain in RP system.	10	CO1
Q9	Discuss the process of Selective Laser Sintering (SLS).	10	CO2
Q10	Discuss the concept of Internal Hatching and Surface skin fills.	10	CO3
<b>SECTION-C</b>			
Q11	a) Briefly explain the RP processes involving Solid Sheets.	10	CO2
	b) Briefly explain any two RP processes involving solidification of Liquid polymer.	10	