Name: Enrolm	ent No:	5		
	UNIVERSITY OF PETROLEUM AND ENERGY	STUDIES		
	END Semester Examination, December 2021			
Programme Name: B.Tech- ADESemestCourse Name: Transportation Design & DevelopmentTime		emester : VII ime : 03 hr Max. Marks: 100	: 03 hrs.	
	page(s) :2			
Instruc				
ii.	There are three sections viz. Section A, Section B and Section C. Section A carries 20 n marks and Section C carries 30 marks Attempt all the questions in Section A, B and C Make appropriate assumptions wherever required SECTION A – 20 Marks	narks, section B carr	105 40	
S. No.		Marks	CO	
Q 1	Describe Transportation design and major contributing areas in automobile.	4	CO	
Q 2	Describe relation between design and styling.	4	COI	
Q 3	Describe `User survey' in transportation design.	4	CO2	
Q.4	Describe relation between Design and Ergonomics in Transportation Design.	4	CO2	
Q.5	Describe role of digital modeling in transportation design.	4	CO2	
	SECTION B-40 Marks			
Q 6	Describe Design process followed I transportation Design. Design an alloy we rim by drawing and show incorporation of innovation and function.	heel 10	CO1	
Q 7	Describe Kansei Engineering and show with drawing different benefits that ca achieved by using this principle.	an be 10	CO2	
Q.8	Illustrate with drawing the ergonomic factors involved in Car seat design.	10	CO2	
Q.9	Describe Metaphor in Design. Describe how metaphor in design can be used a problem solving.	for 10	CO2	

Q 10	Use the principles of design and draw an exterior design for a city car for 2030. Explain design features and how it will work.	20	CO2
Q. 11	Describe Moodboard in design. Draw a car using moodboard.		
	OR	20	CO3
	Describe Biomimicry. Use Biomimicry and design exterior shape of an electric car.		