


Name: Enrolment No:	
--	--

UPES
End Semester Examination, May 2024

Course: Automotive Ergonomics and Styling Program: B. Tech (ADE) Course Code: SDTD3028	Semester: VI Time: 03 hrs. Max. Marks: 100
---	---

Instructions:
Attempt all sections.
Each question carries specific marks.
Write your answers concisely.
Ensure clarity and neatness in your sketches.
Total marks for the paper: 100.

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Analysis and select the best defines automotive ergonomics. a) The study of vehicle engine mechanics b) The design of vehicle interiors for optimal comfort and usability c) The process of painting and finishing vehicles d) The study of vehicle aerodynamics Please select the right answer and tell why?	4	CO1
Q 2	The key principles of ergonomic design in vehicle interiors is a) Brand identity b) Accessibility of all controls c) Aesthetic appeal d) Exterior lighting Please state your justification on right answer?	4	CO1
Q 3	The factor is NOT considered in automotive styling. a) Aerodynamics b) Brand identity c) Anthropometry d) Traffic regulations Write down the correct answer and Explain why?	4	CO1
Q 4	Explain the significance of balancing ergonomic considerations with aesthetic design in automotive design?	4	CO2
Q 5	Explain the future of Indian Automotive Industry in coming 10 years?	4	CO2

SECTION B
(4Qx10M= 40 Marks)

Q 6	Justify with reasons will be applicable as an ergonomic criteria to make the car comfortable?	10	CO2
Q 7	Explain the concept of anthropometry and its relevance in automotive ergonomics.	10	CO3
Q 8	Describe how brand identity influences automotive styling decisions, providing an example?	10	CO3
Q 9	Please identify the problems in GS/2AC/3AC Railway Coaches & How would you solve those problems? Please Explain through neat and clean sketches?	10	CO3

SECTION-C
(2Qx20M=40 Marks)

Q 10	Traffic-related problems in Dehradun, like those in many other metropolitan cities, typically include congestion during peak times. Give some creative ideas to address this problem?	20	CO4
Q 11	How would you improve the comfort level in Railway General Second Class Compartment? OR Define the emerging trend is influencing automotive design and its ergonomics?	20	CO4