



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examination (December 2019)

School: School of Engineering

Program: M.Tech Automotive Product Engg

Course: Vehicle system Architecture

Course Code: APE 501

Semester: I

Max Marks: 40

Duration (mins) : 90

	All questions are compulsory	Marks
Q 1	Explain frame construction and frameless construction with neat sketch.	[5]
Q 2	Explain various motions of vehicles with neat sketch. Explain drag and lift and discuss various vehicle resistances	[5]
Q 3	State various materials used in automobile.	[5]
Q 4	Explain environmental norms and standards used in modern vehicle.	[5]
Q 5	Sketch and explain car air conditioning system	[5]
Q 6	Sketch and explain engine cooling system in car with help of various modes of heat transfer.	[5]
Q 7	Write note on SAE manikin standard	[5]
Q 8	Write note on vision system design in modern car.	[5]
