



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (APRIL 2019)

School : School Of Engineering

Program: APE MTECH SEM-II

Course: Vehicle Aerodynamics

Course Code: APE507

Semester: II

Max Marks: 50

Duration (mins) : 120

Note : 1. Figures to the right indicates full marks.

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| Q 1. | A) Discuss flow field around a car. | 5 |
| | B) Explain the Aerodynamic drag & Its Types. | 5 |
| Q2. | A) How performance of vehicle is affected by forces and moments of fluid flow. | 5 |
| | B) What are applications of CFD in Vehicle aerodynamics? | 5 |
| Q3. | Write a short note on improvement of windshield and A-pillar to increase aerodynamic performance vehicle. | 10 |
| Q4. | Explain with neat sketch Climatic WIND tunnel. | 10 |
| Q5 . | Write a short note on improvement of windshield and A-pillar to increase aerodynamic performance vehicle. | 10 |