



# AJEENKYA

## D Y PATIL UNIVERSITY

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### End Term Examinations (December 2018)

**School :** School of Engineering      **Program:** M. Tech. (Automotive Product Engineering)

**Course:** Vehicle System Architecture

**Course Code:** APE501

**Semester:** I

**Max Marks:** 50

**Duration (mins) :** 120 min

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Note : 1. Figures to the right indicates full marks.  
2. Solve any Five of the following

- Q 1. Draw the layout of four door saloon and also specify its salient features. (10 M)
- Q 2. Explain terms vehicle statics and Dynamics. (10 M)
- Q 3. Explain the current standard tool for measuring vehicle seats is the SAE J826 H-point manikin. (10 M)
- Q 4. Explain Various Performance Parameters affecting on IC Engine Performance. (10 M)
- Q 5. Explain in Brief different components of Vehicle A/C system. (10 M)
- Q.6. Draw and explain Pneumatic circuit for double acting cylinder. (10 M)
- Q.7. List out the various forms of drag forces acting on moving vehicle body. (10 M)

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