



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School : School of Engineering

Program: M Tech (APE)

Course: Automotive Equipment Design

Course Code: APE503

Semester: I

Max Marks: 50

Duration (mins) : 120

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

Q1. Explain important stages of heat treatment process. (10)

Q2. Explain stress-strain diagram highlighting below parameters:

A) Upper & lower yield point

B) Resilience

C) Toughness

D) Ultimate tensile strength

(10)

Q3. Explain Power metallurgy process as a manufacturing process and state it's advantages over conventional casting process. (10)

Q4. State all stages of product development stages involved in product making of Alloy wheel and state in brief about material used. (20)