



SCAN ME



VIT

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

E1+TE1

## SCHOOL OF MECHANICAL ENGINEERING

### CONTINUOUS ASSESSMENT TEST – I - WINTERSEMESTER 2019-2020

Programme Name & Branch: B.Tech (BMA/BME)

Course Name Code: MEE1036

Course Name: Automotive Chassis

Faculty Name(s): Dr.K.Prabu

Class Number(s): VL2019205001207 Exam Duration: 90 mins Maximum Marks: 50

#### Section – A (10 x 2 = 20 Marks)

1. Analyze the effect of different geometrical shapes in a heavy vehicle chassis members when a truck is operated at different loading condition.
2. Investigate the several type of loads acting on dead front axle beam. Explain the axle components with figures.

#### Section – B (15 x 2 = 30 Marks)

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3. Discuss the construction and working principle of the steering system in the heavy vehicle truck with appropriate sketch.
4. Explain the different types of steering gears system and types of stub axles with neat sketches.