

No. of Printed Pages : 03

Roll No.

E192

B. Tech. EXAMINATION, 2020

(Fifth Semester)

(B Scheme) (Re-appear Only)

(AE)

AE303B

AUTOMATIVE CHASSIS

Time : 2½ Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Four* questions in all. All questions carry equal marks.

1. Draw and describe the utilized frame body construction of modern automobile.
2. Draw and describe the power assisted steering/steering of crawler tractor.
3. Draw and describe the constructional details of components of rear axle drive line and Hotchkiss drive or torque tube drive. Discuss the effects of driving thrust and torque reaction.
4. Explain the necessity of a differential in an automobile. Discuss briefly the construction and operation of the differential. Draw and differentiate fully floating, three quarter floating and semi-floating rear axles.
5. Draw and describe the constructional details of leaf, coil and torsion bar springs used for automotive suspension systems.
6. Draw and discuss the rubber suspension and pneumatic suspension systems used for modern automobile.

7. Draw and describe construction and working of drum brakes. Compare them with the parking brakes.
8. Draw and describe construction and working of vacuum brake system.