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B.Tech.(AE) (2012 to 2017) (Sem.-4) AUTOMOTIVE CHASSIS SYSTEMS

Subject Code : BTAE-401/302 M.Code : 72487

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a. How we can stop skidding of wheels?
- b. What is power assisted braking?
- c. How the wheel balancing performed on wheels?
- d. What are all season tires?
- e. What is the difference between radial and bias ply tyres?
- f. What are torsion bar springs?
- g. How do you define dead axles?
- h. What is limited slip differential?
- i. Draw diagram for spiral bevel gear.
- j. Define Multi axle steering systems.



SECTION-B

- 2. What is different type of Chassis layout? How the load acting on vehicle affect the designing?
- 3. How the front axle designed? Provide the construction details along with material used.
- 4. What is Hotch kiss drive? How it is different from torque tube drive?
- 5. Explain different type of derive and differential in details.
- 6. Why we need suspension system? Provide construction details of leaf spring, how it is different from torsion bar spring?

SECTION-C

- 7. What is the different type of wheels used in automobiles? Enlist the benefits of using alloy wheels.
- 8. What is the difference between the drum and disc brakes? Provide customer details and its b. Anti-lock braking systems
 c. Servo brakes
- 9. Explain the following:

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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