Roll No.				

Total No. of Pages: 02

Total No. of Questions: 09

B.Tech.(ME) (2011 Onwards) (Sem.-5) AUTOMOBILE ENGINEERING

Subject Code: BTME-505 Paper ID: [A2132]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. 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. Write briefly:

- (a) State advantages and disadvantages of frameless construction.
- (b) What is the function of choke in Carburetor?
- (c) What is "unsprung weigh", why it is kept low?
- (d) What is the function brake in automatic transmission?
- (e) What is function of butterfly valve in Governor?
- (f) What is are leading and trailing shoes in automobile braking system?
- (g) What is the function of pick up coil in modern ignition system?
- (h) What is torque wrench and where it is used?
- (i) What is the function of Thermostat in Engine cooling system?
- (j) What are the advantages of McPherson strut suspension system?

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SECTION-B

- 2. Describe various loads on frame and discuss briefly function of shock absorber.
- 3. Discuss working of full pressure lubrication system with neat sketch.
- 4. Explain the principle of automatic transmission.
- 5. Discuss working of vacuum barkes with neat sketch.
- 6. Enlist the different Starting motor drives in automobiles. Describe with neat sketch the most widely used drive for diesel engines.

SECTION-C

- 7. Write the Preventive maintenance, troubleshooting and rectification of lubrication and braking system.
- 8. Describe the battery system use in automobiles with the help of neat sketch.
- 9. Explain the working of one Power steering system of an automobile; also differentiate between radial ply and cross ply tyre.

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