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Total No. of Pages : 02

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B.Tech (ME) (Sem.-5) AUTOMOBILE ENGG. Subject Code : ME-305 Paper ID : [A0816]

Time: 3 Hrs.

Max. Marks: 60

# **INSTRUCTIONS TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

## **SECTION-A**

#### 1. Write briefly :

- a. What is the advantage of frameless chassis?b. Write different types of pistons.
- c. What is crank case ventilation
- d. What is the function of radiator?
- e. Write different types of brakes used.
- f. What is the function of MPFI?
- g. What is the function of Thermostat in Engine cooling system?
- h. What is the function of cut out in battery charging system?
- i. State applications for front and rear wheel drive.
- j. What is the function of "Pitman arm" in Steering system?



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## **SECTION-B**

- 2. Discuss working of modern engine cooling system with neat sketch.
- 3. Explain with the line diagram the working of :
  - a) Individual pump and nozzle system.
  - b) Unit injector system.
- 4. Explain wishbone type suspension system with diagram.
- 5. Explain constant mesh and synchromesh gearbox.
- 6. Explain construction and working of differential.

## **SECTION-C**

- 7. Explain common rail direct injection system with neat sketch.
- 8. Write the Preventive maintenance, troubleshooting and rectification of lubrication and braking system.
- 9. Explain the construction, principle of working of any one type of Power steering systems used in Automobile.