

Roll No.

Total No. of Questions : 09]

12/12/09 / m

[Total No. of Pages : 02

B.Tech. (Sem. - 5th)

AUTOMOBILE ENGINEERING

SUBJECT CODE : ME - 305

Paper ID : [A0816]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

- a) Name various methods of engine cooling.
- b) What is the use of a thermostat?
- c) What do you understand by king pin inclination?
- d) What is ply rating of tyre?
- e) How is the drive from propeller shaft turned at right angle?
- f) How is the lubrication of gear box is done?
- g) What is a servobrake?
- h) What is a leading shoe?
- i) What is a transistor?
- j) What is a contact breaker?

Section - B

(4 × 5 = 20)

- Q2) What is crankcase ventilation and how is it achieved in automobile engine.
- Q3) Discuss the common troubles which are likely to occur in a mechanical fuel pump.
- Q4) Discuss various factors of wheel alignment.
- Q5) Explain the construction and working of a differential used in automobile.
- Q6) Discuss the requirements of an automobile brakes.

Section - C

(2 × 10 = 20)

- Q7) Describe the construction and working of the carburettor used in Maruti-800 Cars.
- Q8) Explain the construction and working of a telescopic type shock absorber with the help of a neat diagram.
- Q9) Explain with the help of a neat diagram the conventional battery ignition system.

