

Roll No:
Total No. of Questions : 10]

[Total No. of Pages :02

Paper ID [ME305]

MAY 2008

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 5th)

AUTOMOBILE ENGINEERING (ME - 305)

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.

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Section - A

(10 × 2 = 20)

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Q1)

- (a) Give the classifications of various types of automobiles.
- (b) What is the Principle of automatic transmission?
- (c) Give the constructional features of automobile clutch.
- (d) Explain carburetion.
- (e) Write the desirable properties of lubricants.
- (f) What do you mean by battery rating and battery testing?
- (g) What is engine tuning?
- (h) Explain steering linkages and steering gears.
- (i) Explain simple type of air cooling system.
- (j) Write short note on shock absorbers.

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P.T.O.

Section - B

(4 × 5 = 20)

- Q2) Explain with the help of neat sketch synchromesh and constant mesh gear box.
- Q3) Explain with the help of neat sketch various types of lubrication systems.
- Q4) Explain with the help of neat sketch working of differential.
- Q5) Explain various types of modifications done in simple carburetor.
- Q6) Explain the construction and working of various types of water cooling system.
- Q7) Explain the principle of automatic transmission.

Section - C

(2 × 10 = 20)

- Q8) Write short notes on:
- Crank case ventilation and dilution.
 - Various types of rear axles.
 - General layout of automotive vehicle.
- Q9) Write the Preventive maintenance, troubleshooting and rectification of lubrication and braking system.
- Q10) Write short note on:
- Write short notes on pollution due to vehicle emission and exhaust emission control system.
 - Explain the constructional features of automobile clutch.

