

GBCS SCHEME

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18ME824

Eighth Semester B.E./B.Tech. Degree Examination, June/July 2025 **Automobile Engineering**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. List and discuss cylinder arrangements are used to give better performance of the engine. (10 Marks)
b. Explain valve actuating (overhead) mechanism with neat sketch. (10 Marks)

OR

- 2 a. Discuss thermosyphon cooling system with neat sketch. (10 Marks)
b. What are the objectives of lubrication? Explain splash lubrication system. (10 Marks)

Module-2

- 3 a. Discuss the cone clutch with neat sketch and mention its advantages (any two). (10 Marks)
b. Describe fluid fly wheel with a neat sketch. (10 Marks)

OR

- 4 Mention types of breaks and discuss vacuum servo brake system. (20 Marks)

Module-3

- 5 a. Discuss power steering With a neat sketch. (10 Marks)
b. Explain worm and wheel steering gear. (10 Marks)

OR

- 6 a. List front wheel suspension and explain any one with neat sketch. (10 Marks)
b. Discuss magneto ignition system of rotating magnet type. (10 Marks)

Module-4

- 7 a. List the advantages and disadvantages of super charging. (10 Marks)
b. Write a note on inter cooler. (05 Marks)
c. What are the limitations of turbo charging? (05 Marks)

OR

- 8 a. Discuss normal and abnormal combustion in SI engines. (10 Marks)
b. Discuss the multipoint fuel injection system. (10 Marks)

Module-5

- 9 a. Explain Evaporative Control System (ECS) for fuel injected engines. (12 Marks)
b. Discuss controlling combustion process. (08 Marks)

OR

- 10 Write a brief note on :
a. Motor Vehicle Act
b. Euro – I Norms
c. Catalytic Converter
d. Air Pollutants. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.