

CBCS SCHEME

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Sixth Semester B.E. Degree Examination, June/July 2023

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. Explain the working of four stroke C.I engine with neat sketch. (10 Marks)
b. With neat sketch explain the following: i) Crankshaft ii) Valves. (10 Marks)

OR

- 2 a. Explain valve actuating mechanism. (10 Marks)
b. Explain valve timing diagram with neat sketch. (10 Marks)

Module-2

- 3 a. Explain different types of fuel pump used in IC engine. (10 Marks)
b. Explain the working of simple carburetor with a neat sketch. (10 Marks)

OR

- 4 a. With neat sketch, explain the construction of fuel injector. (10 Marks)
b. Compare conventional and alternative fuels. (10 Marks)

Module-3

- 5 a. With a neat sketch, explain the working of magneto Ignition system. (10 Marks)
b. Compare Battery and Magneto Ignition System. (10 Marks)

OR

- 6 a. Explain the principle of Friction clutches with neat sketch. (10 Marks)
b. Explain the working of multiple clutches with neat sketch. (10 Marks)

Module-4

- 7 a. Explain different types of Chassis Frames with neat sketches. (10 Marks)
b. With neat sketch, explain toe-in and toe-out mechanisms. (10 Marks)

OR

- 8 a. Explain the working of differential with neat sketch. (10 Marks)
b. Explain the following with neat sketch
i) Propeller shaft ii) Caster iii) Camber. (10 Marks)

Module-5

- 9 a. Explain air suspension system with neat sketch. (10 Marks)
b. Compare disc and drum brakes system. (10 Marks)

OR

- 10 a. With neat sketch, explain antilock braking system. (10 Marks)
b. With neat sketch, explain Exhaust gas recirculation. (10 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.