

CBCS SCHEME

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15MT654

Sixth Semester B.E. Degree Examination, June/July 2018 Safety and Security System

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. List the engine classifications. (04 Marks)
b. Explain with a neat sketch working of CARBURETOR. (08 Marks)
c. Explain CMV rules limiting to vehicle dimension. (04 Marks)

OR

- 2 a. Write short notes on : i) FUEL system ii) Fuel Filter. (08 Marks)
b. Describe with a neat sketch Fuel Injection System. (08 Marks)

Module-2

- 3 a. Explain Battery storage, operations and maintenance. (08 Marks)
b. Explain with a neat sketch coil Ignition system. (08 Marks)

OR

- 4 a. Write short notes on : i) Wiper Motors ii) Fans and Heaters. (08 Marks)
b. Explain CMV rules regarding Lighting and wind shield. (08 Marks)

Module-3

- 5 a. Explain operation and fault finding of clutches. (08 Marks)
b. List Gear box types. (04 Marks)
c. Explain Fluid Fly Wheel. (04 Marks)

OR

- 6 a. Explain with a neat sketch suspension system. (08 Marks)
b. Explain chassis springs. (08 Marks)

Module-4

- 7 a. Explain Dead and Live axles. (08 Marks)
b. Write short notes : i) RIMS ii) Tyres. (08 Marks)

OR

- 8 a. Explain CMV rules for brake system. (08 Marks)
b. Which are the construction and fault finding CMV rules on steering system. (08 Marks)

Module-5

- 9 a. List the types of lubricating oils. (04 Marks)
b. Explain Automobile cooling system. (04 Marks)
c. Special Gadgets and accessories for fire fighting vehicles. (08 Marks)

OR

- 10 a. Write short notes on :
i) Automobile accidents (04 Marks)
ii) CMV rules regarding safety devices for drivers and passengers. (04 Marks)
b. Explain with a neat sketch Lubrication system. (08 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.