

CBCS SCHEME

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15AU754

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019 Two and Three Wheeled Vehicles

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain constructional details of four stroke engine used for two wheelers. (08 Marks)
b. Illustrate advantages and disadvantages of two stroke and four stroke engine used for two wheelers. (08 Marks)

OR

- 2 a. Explain symmetrical and unsymmetrical port timing diagrams. (08 Marks)
b. Illustrate advantages and disadvantages of diesel engines for two wheelers. (08 Marks)

Module-2

- 3 a. Explain construction of fuel cock and its different positions and operation. (08 Marks)
b. Explain layout of carbureted fuel supply system. (08 Marks)

OR

- 4 a. Explain construction and working of spark plug. (08 Marks)
b. Explain working of battery operated ignition system. (08 Marks)

Module-3

- 5 a. Explain the construction of multiplate clutch system. (08 Marks)
b. Describe screw type clutch release mechanism. (08 Marks)

OR

- 6 a. List different final drives used in two wheelers and explain belt and chain drives. (08 Marks)
b. Describe constant mesh gear box. (08 Marks)

Module-4

- 7 a. What are the design considerations for primary function of two wheeler frames? (08 Marks)
b. Describe components of two wheeler frame with neat diagram. (08 Marks)

OR

- 8 a. Explain hand operated brake mechanism of two wheelers. (08 Marks)
b. Describe single leading shoe type drum brakes. (08 Marks)

Module-5

- 9 a. Explain general layout of passenger auto rickshaw. (08 Marks)
b. Explain general layout of loading auto rickshaw. (08 Marks)

OR

- 10 a. Explain importance of two wheeler maintenance and different maintenance schedule. (08 Marks)
b. Describe decarburizing procedure for engine and silencer. (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.