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18AU743

## Seventh Semester B.E. Degree Examination, June/July 2024 Two and Three Wheeled Vehicles

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Write the classification of two wheeled vehicle and briefly explain the various types of two wheeler. (10 Marks)
- b. With a neat layout explain the Moped. (10 Marks)

**OR**

- 2 a. What are the various performance measurements on two wheeler. (10 Marks)
- b. Explain with neat layout of Scooter. (10 Marks)

### Module-2

- 3 a. Mention the types of Carburetor and explain the variable venturi type carburetor. (10 Marks)
- b. What is cooling system? Explain the water cooling system for engines. (10 Marks)

**OR**

- 4 a. Enumerate the types of ignition system and explain the magneto ignition system. (10 Marks)
- b. Discuss the functions of indicators and gouges used in two wheels. (10 Marks)

### Module-3

- 5 a. With a neat sketch, explain working of multiplate clutch. (10 Marks)
- b. Explain the types of primary drives used in two wheelers. (10 Marks)

**OR**

- 6 a. With neat diagram, explain the construction and working of constant mesh gear box. (10 Marks)
- b. List different final drives used in two wheeler and explain belt and chain drive. (10 Marks)

### Module-4

- 7 a. Discuss briefly the design consideration for primary function of two wheeler main frame. (10 Marks)
- b. With a neat sketch and explain the working of Drum Brake system. Also mention the merits and demerits of drum brakes. (10 Marks)

**OR**

- 8 a. Sketch and explain the two wheeler main frame and its major parts. (10 Marks)
- b. List and discuss the types of tyre and mention the merits and demerits of conventional tube type and tubeless type tyres. (10 Marks)

### Module-5

- 9 a. Explain general layout of passenger Autoriskshow. (10 Marks)
- b. Explain general layout of loading Autoriskshow. (10 Marks)

**OR**

- 10 a. Name the different methods of decarburizing of engine and explain them briefly. (10 Marks)
- b. Briefly discuss the importance of two wheeler maintenance and also mention the different maintenance schedule. (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.