CBCS SCHEME

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023
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. With a neat layout of a Moped and Scooter and explain. (10 Marks)
   b. Briefly explain various types of two wheelers. (10 Marks)

OR

2 a. Briefly explain the linear and angular motions. (10 Marks)
   b. Explain briefly the handling characteristics of two wheeler. (10 Marks)

Module-2

3 a. Explain construction of fuel cock and its different position and operation. (10 Marks)
   b. Explain payout of carbureted fuel supply system. (10 Marks)

OR

4 a. Explain construction and working of Spark Plug. (10 Marks)
   b. Explain working of battery operated Ignition System. (10 Marks)

Module-3

5 a. Explain the construction of multiplate clutch system. (10 Marks)
   b. Describe screw type clutch release mechanism. (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 drives. (10 Marks)

Module-4

7 a. What are the design considerations for primary function of two wheeler frames? (10 Marks)
   b. Describe components of two wheeler frame with neat diagram. (10 Marks)

OR

8 a. With a neat diagram explain working of Disc Brake. Also mention the merits and demerits of disc brake. (10 Marks)
   b. Name all the desirable properties of the tyre and explain them. (10 Marks)

Module-5

9 a. Explain general layout of Passenger Autorickshaw. (10 Marks)
   b. Explain the general layout of loading autorickshaw. (10 Marks)

OR

10 a. Explain importance of two wheeler maintenance and different maintenance schedule. (10 Marks)
    b. Name different methods of decarburizing of engine and explain them. (10 Marks)