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18AU743

Seventh Semester B.E. Degree Examination, July/August 2022
Two and Three Wheeled Vehicle

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 wheeler's engines. Discuss any two types. (08 Marks)
b. Write the advantages and disadvantages of two stroke and four stroke engine. (08 Marks)
c. Why scooters are not preferred for long journeys? (04 Marks)

OR

- 2 a. Explain the layout of Moped. (10 Marks)
b. Explain port timing diagram for two stroke engine. (10 Marks)

Module-2

- 3 a. What is the function of carburetor? Explain various types of carburetors used in two wheelers. (10 Marks)
b. With a neat sketch, explain oil cooling system and mention its advantages. (10 Marks)

OR

- 4 a. Discuss about the properties of lubricants. (10 Marks)
b. Explain the construction of spark plug with a neat sketch. (10 Marks)

Module-3

- 5 a. Explain the types of primary drives used in two wheeler. (10 Marks)
b. Sketch and explain the working of multi plate clutch. (10 Marks)

OR

- 6 a. With neat sketch, explain the construction of constant mesh gear box. (10 Marks)
b. Explain the construction and working of shaft drive. (10 Marks)

Module-4

- 7 a. Why the frame is necessary? Explain various loads acting on the frame. (08 Marks)
b. Sketch and explain the construction and working of shock absorber. (08 Marks)
c. Briefly explain the characteristics of various types of handlebars. (04 Marks)

OR

- 8 a. Write the functions of a tyre. Also explain the various parts of tyre. (10 Marks)
b. What are the advantages and disadvantages of disc brakes and drum brakes? (10 Marks)

Module-5

- 9 a. Write short notes on: (i) Auto rickshaws (ii) Pickup van (10 Marks)
b. What are the advantages and disadvantages of front mounted engine in three wheelers? (10 Marks)

OR

- 10 a. List the types of maintenance. Explain the importance of maintenance. (10 Marks)
b. Write the decarburizing procedure for engine and silencer. (10 Marks)

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