

Library
Lecturing Room for Vehicle
Technology Students & Staff

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10AU752

Seventh Semester B.E. Degree Examination, July/August 2021
Two and Three Wheeled Vehicles

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Distinguish two stroke versus four stroke engines. (08 Marks)
b. List out the main engine components, with their functions. (06 Marks)
c. Explain any one valve operating mechanism. (06 Marks)
- 2 a. Sketch and explain the construction and working of venturi – slide type carburetor. (10 Marks)
b. Explain any two types of engine lubrication system. (10 Marks)
- 3 a. With the neat diagram, explain the working of constant mesh gearbox. (10 Marks)
b. Explain with a neat sketch, the working of Multi – plate clutch. (10 Marks)
- 4 a. Discuss the construction of front fork assembly, with neat sketch. (10 Marks)
b. Explain the front and rear suspension systems in two wheelers. (10 Marks)
- 5 a. Enumerate the merits and demerits of disc and drum brakes. (08 Marks)
b. How wheels and tyres are designated? (04 Marks)
c. Sketch and explain disc brake system of a two wheeler. (08 Marks)
- 6 a. With neat diagram, explain Battery Ignition system. (10 Marks)
b. Explain the construction and working of a spark plug, with a neat sketch. (10 Marks)
- 7 a. Compare motorcycles, scooters and mopeds. (10 Marks)
b. Sketch and explain the typical auto rickshaw layout, state the advantages and disadvantages. (10 Marks)
- 8 a. What are the periodic inspection checks and how are they performed? (10 Marks)
b. Write short notes on : (10 Marks)
i) Lubrication charts ii) Safety precautions.

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.