



10AU752

Seventh Semester B.E. Degree Examination, June/July 2019
Two and Three Wheeled Vehicles

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. List out the various components of IC engine and their functions with neat diagram. (10 Marks)
b. With neat diagram, explain port timing diagram of two stroke petrol engine. (10 Marks)
- 2 a. Sketch and explain the working of SU carburetor. (10 Marks)
b. Explain the dry sump lubrication system with neat sketch. (10 Marks)
- 3 a. Explain the working of single plate clutch with neat diagram. (10 Marks)
b. Describe the working of sliding mesh gear box with neat sketch. (10 Marks)
- 4 a. Explain the following :
i) Diamond frame with neat sketch
ii) Frame materials. (10 Marks)
b. With neat diagram, explain the construction and working of telescopic type shock absorber. (10 Marks)

PART – B

- 5 a. Sketch and explain the construction and working of drum brake. (10 Marks)
b. Explain the following :
i) Radial ply tyre
ii) Tyre inflation in two wheelers. (10 Marks)
- 6 a. Explain Capacitive Discharge Ignition (CDI) system with neat diagram. (10 Marks)
b. Explain the construction of a spark plug with neat sketch. (10 Marks)
- 7 Write short note on :
a. Scooter
b. Mopeds
c. Rear mounted engine type
d. Pick – up van. (20 Marks)
- 8 a. Explain the importance of vehicle maintenance. (10 Marks)
b. What is decarbonising? Explain different methods of decarbonising of engine. (10 Marks)

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.