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10AU752

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019

Two and Three Wheeled Vehicles

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. What is an engine? Write the classification of I.C. engine. (04 Marks)
- b. With a neat sketch, explain the construction and working of Four stroke S.I. engine. (08 Marks)
- c. Write the theoretical and actual valve timing diagram for 4 stroke SI engine. (08 Marks)
- 2 a. Explain with a neat sketch construction and working of pump circulation cooling system. (10 Marks)
- b. Explain the working of force feed lubrication system with neat sketch. (10 Marks)
- 3 a. With a neat sketch explain multiplate clutch. (10 Marks)
- b. Explain the construction and working of constant mesh gear box. (10 Marks)
- 4 a. Write the different types of frames used in automotive vehicles. (10 Marks)
- b. With a neat sketch explain Front Shock absorber suspension system. (10 Marks)

PART – B

- 5 a. Explain the working of disc brakes used in two wheeler. (10 Marks)
- b. Explain the construction and working of spoked and alloy wheel. (10 Marks)
- 6 a. With the help of a neat sketch explain Battery Ignition system. (10 Marks)
- b. Explain the construction and working of spark plug. (10 Marks)
- 7 a. Write the case study of any one motor cycle. (10 Marks)
- b. Write the case study of Indian model three wheeler. (10 Marks)
- 8 a. Write the periodic inspection charts for a three wheeled vehicle. (10 Marks)
- b. Write the decarburizing procedure for engine and silencer. (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.