

# CBCS SCHEME

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Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020

## Two and Three Wheeled Vehicle

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Discuss the classification of two wheeler engine. (08 Marks)  
b. Write the advantages and disadvantages of two stroke and four stroke engine. (08 Marks)

OR

- 2 a. Explain port timing diagrams for two-stroke engine. (08 Marks)  
b. Sketch and explain rotary valve engine. (08 Marks)

### Module-2

- 3 a. Explain various types of carburetors used in two wheelers. (08 Marks)  
b. With a neat sketch, explain oil cooling system and mention its advantages. (08 Marks)

OR

- 4 a. Sketch and explain the battery ignition system. (08 Marks)  
b. Explain the construction of spark plug with a neat sketch. (08 Marks)

### Module-3

- 5 a. Explain the types of primary drives used in two wheelers. (08 Marks)  
b. Sketch and explain the working of multi-plate clutch. (08 Marks)

OR

- 6 a. With a neat sketch explain the construction of constant Mesh gear box. (08 Marks)  
b. Explain construction and working of shaft drive. (08 Marks)

### Module-4

- 7 a. Draw a neat sketch showing various components of a conventional frame. Also explain their functions. (08 Marks)  
b. Sketch and explain the construction and working of shock absorber. (08 Marks)

OR

- 8 a. What are the advantages and disadvantages of disc brakes and drum brakes? (08 Marks)  
b. Write the functions of a tyre. Also explain various parts of a tyre. (08 Marks)

### Module-5

- 9 a. Write the advantages and disadvantages of front mounted engine in three wheelers. (08 Marks)  
Write a short note on : i) Autorickshaws ii) Pickup van. (08 Marks)  
b.

OR

- 10 a. List the types of maintenance. Explain the importance of maintenance. (08 Marks)  
b. Write the decarburizing procedure for engine and silencer. (08 Marks)

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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.