

# CRASH COURSE

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10AU752

## Seventh Semester B.E. Degree Examination, May 2017 Two and Three Wheeled Vehicles

Time: 3 hrs.

Max. Marks: 100

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

### PART – A

- 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. List the types of carburetors and explain any one with figure. (10 Marks)  
b. Explain the cooling system in two wheelers, state the advantages. (06 Marks)  
c. Explain the splash lubrication system. (04 Marks)
- 3 a. Explain the typical chain drive system, adopted in two wheelers with figure, state the advantages and disadvantages. (10 Marks)  
b. Write short notes on :  
i) Gear drive in two wheelers  
ii) Clutches used in two wheelers. (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)

### PART – B

- 5 a. Differentiate the disc and drum brake systems with simple figures. (10 Marks)  
b. Explain the following :  
i) Types of wheels  
ii) Tyre inflation in two wheelers. (10 Marks)
- 6 a. Explain the battery ignition system, with neat figure. (10 Marks)  
b. Explain the following :  
i) Spark plug  
ii) Gauges used in two wheelers. (10 Marks)
- 7 a. Compare motorcycles, scooters and mopeds. (10 Marks)  
b. Sketch and explain the typical auto rikshaw layout, state the advantages and disadvantages. (10 Marks)
- 8 a. What preventive maintenance? Explain the importance in avoiding the accidents. (10 Marks)  
b. Prepare a trouble diagnosis chart for various systems of a vehicle. (10 Marks)

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