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10AU752

**Seventh Semester B.E. Degree Examination, June/July 2017**  
**Two & Three Wheeled Vehicles**

Time: 3 hrs.

Max. Marks: 100

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

**PART – A**

- 1 a. Explain with a neat sketch, the working of rotary valve engine. (10 Marks)  
b. Sketch and explain the types of engines used in two wheelers. (10 Marks)
- 2 a. Name different types of carburetors used in two wheelers. Explain S.U. carburetor with neat sketch. (10 Marks)  
b. What are the different types of lubrication used in automobile? Explain mist type of lubrication used in two and three wheelers. (10 Marks)
- 3 a. Explain with a neat sketch single plate clutch type. (10 Marks)  
b. Discuss the operation of shifting fork with a neat sketch. (10 Marks)
- 4 a. Explain different components of frame. (10 Marks)  
b. Write a note on shock absorber. (10 Marks)

**PART – B**

- 5 a. Write a note on:  
(i) Cross ply tyre (ii) Radial tyre. (10 Marks)  
b. Explain the construction of disc brake with neat sketch. (10 Marks)
- 6 a. Explain the principle of lead acid battery with a sketch. (10 Marks)  
b. Name and explain the components of ignition system. (10 Marks)
- 7 a. Explain the drive train layout for loading auto rickshaws. (10 Marks)  
b. Explain the suspension system used in autorickshaws (swing arm suspension). (10 Marks)
- 8 a. Explain the importance of maintenance. (10 Marks)  
b. Write down the troubleshooting chart for a two wheeler. (10 Marks)

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1. Do not write answers in the spaces provided. 2. Do not use pencil for writing answers. 3. Do not use correction fluid. 4. Do not use eraser. 5. Do not use white out. 6. Do not use any other material for writing answers. 7. Do not use any other material for writing answers. 8. Do not use any other material for writing answers. 9. Do not use any other material for writing answers. 10. Do not use any other material for writing answers.