ROLL NO:



PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

Odd Semester: 2018-19

TEST 2

Date: 28 November 2018

Course Code: MEC 401

Time: 1 Hour

Course Name: Automotive Vehicles

Max Marks: 40

Branch & Sem: Open Elective VII Sem Group - I

Weightage: 20%

Instructions:

(i) Answer all the questions.

Part A

Answer all the Questions. Each Question carries four marks

(4x4=16)

- 1. Give any four reasons for using engine cooling systems.
- 2. Explain briefly need of thermostat valve in cooling system.
- 3. Briefly explain four main purposes of lubrication system
- 4. Classify chassis based on structure and control.

Part B

Answer all the Questions. Each Question carries eight marks

(3x8=24)

- 5. Sketch and explain the forced circulation water cooling system.
- 6. With neat schematic diagram explain dry sump lubrication system.
- 7. With neat schematic diagram explain Mac Pherson Strut suspension system.

Roll No.						



PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

END TERM FINAL EXAMINATION

Odd Semester: 2018-19

Date: 29 December 2018

Course Code: MEC 401

Time: 2 Hours

Course Name: Automotive Vehicles

Max Marks: 80

Programme & Sem: VII sem. (Open Elective)

Weightage: 40%

Instructions:

(i) Read the question properly and answer accordingly.

- (ii) Question paper consists of 3 parts.
- (iii) Use pencil for Sketches.

Part A

Answer all the Questions. Each question carries six marks.

(4Qx6M=24)

- 1. Discuss the types of springs used in suspension system.
- 2. With nomenclature sketch, explain helical spring or coil spring.
- 3. List the Functions of fuel injection system.
- 4. Explain in detail the need of brake fluids.

Part B

Answer all the Questions. Each question carries ten marks.

(3Qx10M=30)

- 5. With neat sketch explain shock absorber.
- 6. With neat sketch explain air braking system.
- 7. Differentiate between disc and drum brakes.

Part C

Answer both the Questions. Each question carries thirteen marks.

(2Qx13M=26)

- 8. List the two methods used for atomizing the fuel. Explain with sketch, Common Rail Injection system.
- 9. Explain in detail, the working of Anti-lock braking system.