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MANIPAL INSTITUTE OF TECHNOLOGY
Manipal University, Manipal – 576 104



**V SEM. B.TECH. (INDUSTRIAL& PRODUCTION ENGG.) DEGREE END SEMESTER
EXAMINATIONS DECEMBER 2015**

**SUBJECT: AUTOMOBILE ENGINEERING (MME-347)
REVISED CREDIT SYSTEM**

Time: 3 Hours.

MAX.MARKS: 50

Instructions to Candidates:

❖ Answer **ANY FIVE FULL** questions with appropriate answer

- 1A) Explain with a neat sketch working of a Mechanical Fuel Pump. (04)
- 1B) With a neat sketch explain the working of a Centrifugal clutch. (03)
- 1C) With a neat sketch explain working of a Centrifugal advance mechanism (03)
- 2A) Explain with a neat sketch Constant Mesh gear box and show the diagram of engaging gear 1st and 4th gear. (04)
- 2B) With a neat sketch explain the following terms with its approximate magnitude and purpose: i) Camber angle ii) Toe-in and toe-out iii) Caster angle. (04)
- 2C) What are the differences between Battery Ignition and Magneto Ignition system? Explain. (02)
- 3A) What is the difference between Wish bone and MacPherson Strut type suspension system? Explain (03)
- 3B) What is the difference between dry and wet liners? Explain (03)
- 3C) Explain the working of a Servo Vacuum Brake system with a neat sketch (04)
- 4A) What are the advantages of Multicylinder engine over single cylinder engines? explain (04)

- 4B) What is piston slap? Explain with a neat sketch any three methods to control piston slap (03)
- 4C) What is crankcase ventilation? And which all the parts are lubricated during Pressurized lubrication? List. (03)
- 5A) Draw and explain overcome difficulties during starting adjustable jet area and Idling of Simple Carburetor. (04)
- 5B) What is the difference between the Three floating and full floating axle? (03)
- 5C) What are the desirable tyre properties? (03)
- 6A) What is the function of Compression and Oil ring of a piston? Explain with sketch (03)
- 6B) Draw and explain working of a Hotch kiss Drives (04)
- 6C) What are the differences between Disc and Drum brake? Explain (03)