

No. of Printed Pages : 4

Roll No.

121763/031763

6th Sem. / Mech. Engg.

Subject : Automobile Engineering

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define body of an automobile.
 - b) Name the components of fuel system of diesel engine.
 - c) Cam shaft.
 - d) Atomizer.
 - e) Tractive resistance.
 - f) Drive line.
 - g) Functions of rear axle.
 - h) Carcass.

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- i) Principle of power steering.
- j) Camber.
- k) Steering ratio.
- l) Wheel cylinder.
- m) Crank type brake adjuster.
- n) Brake shoe equalizing.
- o) Sprung weight.
- p) Brake dip.
- q) Regulator.
- r) Primary cell of battery.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Explain briefly MPFI system with diagram.
 - ii) Write short note on DOHC engine.
 - iii) Explain construction and working of constant mesh gear box system.

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- iv) Explain in detail Torque converter.
- v) Explain with diagram tubed tyres.
- vi) What is Toe in and Toe out?
- vii) Write short note on worm and nut steering gear.
- viii) Explain components of air brake system.
- ix) Explain antilock brake system.
- x) Explain briefly semi elliptic leaf spring.
- xi) Write short note on air spring.
- xii) What are the functions of suspension system?
- xiii) Write the steps to maintain the battery.
- xiv) Explain magneto ignition system.
- xv) Write short note on Dynamo.

questions. 3x10=30

- Q.3 Explain construction, working and advantage of semi-centrifugal clutch with diagram.
- Q.4 What is steering system? Explain its components?
- Q.5 What is the principle of brake? Explain in detail vacuum brake?
- Q.6 Explain construction, working and functions of shock absorber.
- Q.7 Explain construction and working of lead acid battery.

SECTION-C

Note: Long answer type questions. Attempt any three

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