

Q.P. Code: 27044

Time: 3 Hours

Marks: 80

N.B: Question no.1 is compulsory.

Solve any 3 from remaining Questions.

Q. 1 Write answer for any four questions

- a) Explain cooling system diagnosis in detail 5
- b) What is the purpose of engine's cylinder head valves and valve related parts? 5
- c) Write short note on Power Steering. 5
- d) What is active and passive restraint systems? 5
- e) State the difference between transmission and trans axle. 5
- f) Explain the phenomenon of roll over protection. 5

Q. 2

- a) Explain starting system diagnosis and service procedure in detail. 10
- b) Explain the major parts of typical air bag system in detail. 10

Q. 3

- a) Explain transmission diagnosis in details. 10
- b) What are the components of suspension system and explain in detail. 10

Q. 4

- a) Why discharging rate of battery is high in some cases? Explain its causes and effects. 8
- b) What is differential and explain its working in detail with sketch 8
- c) What is event data recorder and Precollision system and explain it. 4

Q. 5

- a) Explain power steering trouble diagnosis and servicing procedure. 10
- b) What are the various lighting system controlled by head light switches? 10

Q. 6 Write short note on: (Any four)

- a) Flywheels 5
- b) Sound system 5
- c) Cigarette system 5
- d) Engine bearings 5
- e) Clock system 5