

Sem VIII / CBS GIS / Auto / M-J-19

Time: 3 Hours

Marks: 80

- N.B.:** (1) Question No. 1 is compulsory.
 (2) Attempt any 3 questions out of 5 questions.
 (3) Figures to the right indicates full marks.
 (4) Illustrate your answers with sketches wherever necessary.

- Q.1** Solve any four from remaining in six questions 20
- Explain the wheel balancing procedure stepwise 05
 - What do you mean by Clutch Juddering and dragging 05
 - Explain the various materials used and its properties for brake shoes & linings 05
 - Explain diagnosis of U joints 05
 - List out maintenance to be carried out of vehicle after 1,00,000 Km run 05
 - Explain preventive maintenance 05
- Q.2** 20
- Explain diagnosis and servicing of Steering system 10
 - What are probable causes and remedies for Engine overheating 05
 - A front wheel drive vehicle with four-wheel disc brakes is pulling to the left. Technician A says an external kink or internal restrictions in the brake line will result in this condition. Technician B says use compression fitting to repair a section of brake line, Who is correct? 05
 - Technician A 05
 - Technician B 05
 - Both A and B 05
 - Neither A nor B 05
- Q.3** 20
- Explain diagnosis and servicing of EGR system 10
 - How to do the Cylinder head servicing 05
 - Two technicians are discussing a clutch master assembly. Technician A says the external leaks are due to secondary seal. Technician B says hydraulic fluid is hygroscopic to absorb moisture from atmosphere, who is correct? 05
 - Technician A 05
 - Technician B 05
 - Both A and B 05
 - Neither A nor B 05
- Q.4** 20
- Explain engine lower end theory and its servicing 10
 - Write a significance of fuse box and relays in electrical systems 05
 - Technician A says misaligned engine and transaxles cradle may cause drive axle vibrations. Technician B says misaligned engine and transaxles cradle may cause improper front suspension angle, who is correct? 05
 - Technician A 05
 - Technician B 05
 - Both A and B 05
 - Neither A nor B 05

Q.5

- a) Write a short note on security and anti-theft devices
- b) Write a note on camshaft inspection
- c) Explain in detail starting system diagnosis and its servicing

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06

Q.6 Solve any four from remaining in six questions

- a) Write a note on Power door
- b) Servicing of oil pump
- c) Write a note on Heated rear window defogger
- d) Power windows
- e) Diagnosis of catalytic converter
- f) Write a note on ABS

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