

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Voc. (Automobile Servicing) (Sem.-4)**

## VEHICLE PERFORMANCE & TESTING

**Subject Code : 6.GV.07**

**M.Code : 79994**

**Date of Examination : 17-12-22**

**Time : 3 Hrs.**

**Max. Marks : 30**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying ONE mark each.**
2. **SECTION-B contains FIVE questions carrying TWO AND A HALF marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying FIVE marks each and students have to attempt any TWO questions.**

## SECTION-A

**1. Write briefly :**

- a) Brief about fuel economy.
- b) Is steering system have impact on vehicular system performance? Write in brief.
- c) Write about torque converters as transmission performance.
- d) Illustrate about wheel testing.
- e) Define free acceleration test.
- f) List at least four collisions and crash testing.
- g) Write about collapsible steering.
- h) Define passive safety
- i) What is the function of catalytic converter?
- j) List some automobile testing instruments.

## **SECTION-B**

2. Explain the EGR systems in detail.
3. Compare the different automotive clutches for vehicular transmission performance.
4. Explain the process of side impact testing and rear crash testing.
5. Describe energy absorption in comfort, convenience and safety in vehicles.
6. What types of sensors are used for noise vibration and EMI measurement? Also, discuss about their selection.

## **SECTION-C**

7. Explain the deceleration, handling and life durability vehicle performance parameters.
8. Discuss in detail about the motor vehicle safety standards and active safety.
9. Write note on :
  - a) Full scale testing and
  - b) Testing of gear box for noise.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**