

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Automobile Servicing) (Sem.-6)

AUTOMOTIVE NVH-II

Subject Code : 7.GV.06

M.Code : 91634

Date of Examination : 02-01-2023

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 **2½** (Two and Half) marks each and students has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **FIVE** marks each and students has to attempt any **TWO** questions.

SECTION-A

1. **Write short notes on :**
 - a. Define Vibration.
 - b. What is structure borne sound.
 - c. What is CFD?
 - d. Mention the applications of Rubber embedded metallic bushes.
 - e. What is Acoustics of vehicle?
 - f. What are the Noise limits in Db for two in India?
 - g. What is viscous damping?
 - h. What is transmission noise?
 - i. What is the function of resonators?
 - j. What do you understand by aerodynamic noise?

SECTION-B

2. List out the equipments used in NVH and give the applications of each.
3. Give the classification of vibration with short detail.
4. Discuss the sources of Vibrations in vehicle.
5. Differentiate between Passive and Active suspension.
6. Discuss the effects of reflecting surface on sound propagation.

SECTION-C

7. Explain vibration due to tire and wheel in detail.
8. Classify damper and explain Hydraulic damper with neat sketch.
9. Write the name of various NVH measurement tools and techniques, explain any two.

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.