

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 : 06-07-22

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 $2\frac{1}{2}$ (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 Noise.
 - b. Write wave equation of sound.
 - c. List the classification of vibrations.
 - d. Write the advantages of Rubber embedded metallic bushes.
 - e. What is passive suspension?
 - f. Name the sources of vibration in vehicle.
 - g. What is Doppler effect?
 - h. Which are the causes of squeaky brakes?
 - i. What is vibration isolation?
 - j. What is octave band analysis?

SECTION-B

2. Discuss harness in reference to vehicular application.
3. Differentiate between Structure borne, sound and air borne sound.
4. Explain the working and importance of Damper.
5. Mention the Noise limits in Db for two and three wheelers in India?
6. Describe the porous sound absorbers in brief.

SECTION-C

7. Classify the Transducers and explain Piezoelectric transducers.
8. Compare the Active safety features with Passive safety features of a vehicle.
9. Discuss the methods to control the engine 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.