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2107092

BACHELOR OF VOCATION
Automotive Manufacturing
Subject: Measurement and Meteorology
Subject Code: BBME-106
Semester: Second
July 2021
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. Define Metrology
- B. Discuss the fundamental of inspection methods
- C. Discuss accuracy
- D. Discuss the need of inspection
- E. Define unit of Measurement
- F. Define statistical concepts in metrology
- G. Define the function of sine bar
- H. Differentiate between Lux and vibrations
- I. Discuss screw thread terminology
- J. Discuss the applications of Interferometry

SECTION –B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. What is Error? Explain the sources of error with suitable examples.
2. What is calibration? Explain the need and importance of calibration with suitable examples.
3. Explain construction and working of micrometer with neat and clean diagram.
4. Explain construction and working of Bevel protractor with neat and clean diagram.
5. Define the function of gear. Explain the working of different types of gears with neat and clean diagram.
6. Discuss the working of different types of Comparators with neat and clean diagram along with industrial applications.
7. What is tolerance? Explain the different types of tolerances with neat diagram along with Industrial applications.
8. Describe factor affecting the surface roughness with suitable example.

==END OF PAPER==