

**Government College of Engineering, Amravati**  
**Mechanical Engineering Department**

**Subject: MMS (MEU 504)**  
**Date: 04/08/2017 (4.30 to 5.30 pm)**

**Class Test -I**  
**Max. Marks: 15**

**Attempt any three questions**

- Q1. What is meant by Metrology? State the different objectives of Metrology.**
- Q2. Describe the following terms in brief with neat sketch**  
a) Surface Plate    b) V block
- Q3. Explain how a sine bar can be used to determine the inclined angle?**
- Q4. Define gear pitch? Explain how to determine the tooth-to-tooth pitch errors in gear.**

**Government College of Engineering, Amravati**  
(An Autonomous Institute of Government of Maharashtra)

**CT-3 Sub- MEU504 (Metrology & measurement system) Max Marks- 15 Time- 1 Hr**

**Give any three (Each question carry 5 mark)**

- 1- Describe the working of optical pyrometer with neat sketch
- 2- Explain hot wire anemometer with neat sketch.
- 3- State working of thermocouple with sketch. Explain RTD & Thermistors in short.
- 4- State the names of instruments used for force, torque & power measurement. Explain electromagnetic balance with neat sketch.

GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI  
MECHANICAL DEPARTMENT

Class test I

B.Tech (Third)

Date 05/08/2015

Sub: MMS (MEU504)

Time: 60 Min

Marks 15

Solve any three

- Q(1) Define Metrology. What are the objectives of Metrology? 5 M
- Q(2) Define Linear measurement with (a) Surface Plate (b) Slip Gauge 5 M
- Q(3) Explain advantages, disadvantages and working of Mechanical Comparator. 5 M
- Q(4) Explain construction and working of Bevel type Protractor. 5 M
- Q(5) Explain sine bar and sine principle..5M

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