

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - APR 2023**

Semester : Semester VI -2020

Course Code : MEC3016

Course Name : Sem IV - MEC3016 - Statistics and Quality Control

Program : MEC

Date : 17-APR-2023

Time : 9:30AM - 11AM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. What do you understand by the term 'quality'?
(CO1) [Knowledge]
2. Mention two types of cost of quality.
(CO1) [Knowledge]
3. What are all the quality characteristics in general?
(CO1) [Knowledge]
4. What is a variable data? Give example.
(CO2) [Knowledge]
5. What is an attribute data? Give example.
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

6. Which tool is generally used to bring the Voice of the Customer (VOC) into the design of product? Explain the same with some real world example of your choice.
(CO1) [Comprehension]
7. What is cost of quality? Explain poor quality in detail with examples.
(CO1) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

8. Write in detail about the following quality control tools which are commonly used in various types of industries: Stratification, Histogram, Check sheet and Cause and Effect diagram.
(CO1) [Application]