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2107042

**BACHELOR OF VOCATION**  
**Automotive Manufacturing**  
**Subject: Quality Control and Reliability Engineering**  
**Subject Code: BBME-206**  
**Semester: Fourth**  
**July 2021**  
**Theory (External): 70 Marks**  
**Time: 03 Hours**

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**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 2 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 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)**  
(10x2=20 Marks)

- A. Define quality
- B. Define SQC
- C. Define quality Planning
- D. Discuss Kaizen approach
- E. Define TQM
- F. Define applications of P chart
- G. Define applications of C chart
- H. Describe redundancy
- I. Define merits of X chart
- J. Define demerits of P chart

**SECTION –B (ESSAY TYPE QUESTIONS)**  
(5x10=50 Marks)

1. What is Quality? Discuss the factors influencing quality with suitable example.
2. Describe the concept of economics of quality with suitable example.
3. Describe the concept of quality audit with example.
4. Differentiate between variables and Attributes with suitable example.
5. Discuss different types of sampling plans with suitable examples.
6. Differentiate between Maintainability and availability with suitable example.
7. Describe life testing reliability system approach with example.
8. Describe the different types of probability with suitable example.

==END OF PAPER==