

BACHELOR OF VOCATION
Automotive Manufacturing
Subject: Quality Control and Reliability Engineering
Subject Code: BBME-206
Semester: Fourth
September 2020
Theory (External): 70 Marks
Time: 03 hours

INSTRUCTIONS TO THE STUDENTS

1. Read the questions carefully and write the answers in the answer sheets.
2. Wherever necessary, the diagram drawn should be neat and properly labelled.
3. This questions paper comprises of 6 questions out of which student need to attempt any 3 questions.
4. All questions carry equal marks.
5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

ESSAY TYPE QUESTIONS

1. Describe the following in the connection of TQM
 - i. Benchmarking
 - ii. KAIZEN
2. What is the difference between attributes charts and variable charts? Explain their advantage and dis -advantage also.
3. Explain the various types of sampling plans which are in practice in industry with their respective acceptance criteria.
4. A single sampling plan uses a sample size of 15 and an acceptance number 1. Using hyper geometric probabilities, compute the probability of acceptance of lot of 50 articles 2% defective.
5. State and explain the factors to be considered in designing for reliability. Also explain the reliability test.
6. Discuss and draw the neat sketch of OC curves showing its different zones.

*****END OF PAPER*****