

2101289

**BACHELOR OF VOCATION**  
**Robotics and Automation**  
**Subject: Fundamentals of Industrial Management and**  
**Safety**  
**Subject Code: IMS-501**  
**Semester: First**  
**January 2021**  
**Theory (External): 35 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 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

<b>Roll Number</b>											

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

- A Define 'Total Quality Control'.
- B What is 'Non-Destructive Testing'.
- C What is 'Quality Assurance'.
- D What are important components of 'Quality Budget'?
- E Where do we use check sheets and histograms?
- F Define the purpose of scatter diagrams.
- G What are the elements of TPM?
- H Is JIT a pull system? If yes, how?
- I Name all the Ss used in 5S concept.
- J How is KAIZEN implemented?

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

- Q1 Describe different types of inspections.
- Q2 Explain different quality costs. How does quality help in achieving customer satisfaction?
- Q3 Describe the significance of quality planning. What is quality audit?
- Q4 What are the elements of ISO 9000? Write about advantages of ISO standards.
- Q5 Write briefly on: -  
a) Problem solving.  
b) Barriers to problem solving.
- Q6 Discuss the terms: Kanban cards, set-up time reduction and poke yoke.
- Q7 Explain the organizational structure for TQM implementation with the help of suitable block diagram.
- Q8 How does 5Ss help in improving safety of the workers? Also describe their role in ensuring business growth.

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