

7E1751

Roll No. \_\_\_\_\_

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**7E1751**

**B. Tech. VII - Sem. (Main) Exam., Feb.- March - 2021**  
**OE -I Open Elective-I Mechanical Engineering**  
**7ME6 – 60.2 Quality Management**

**Time: 2 Hours**

**[To be converted as per scheme]**

**Max. Marks: 82**

**Min. Marks: 29**

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**Instructions to Candidates:**

**Attempt all ten questions from Part A, four questions out of seven questions from Part B and two questions out of five from Part C.**

**Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.**

**Use of following supporting material is permitted during examination. (Mentioned in form No. 205)**

1. NIL

2. NIL

**PART - A**

**(Answer should be given up to 25 words only)**

**[10×2=20]**

**All questions are compulsory**

**Q.1 Define inspection and give its objectives.**

**Q.2 What is the basic difference between Inspection and Quality Control?**

**Q.3 What is JIT production? What are its aims?**

**Q.4 Why is a multi-function worker required in JIT?**

**Q.5 State the advantages of quality control.**

**Q.6 What do you understand by Bench Marking?**

**Q.7 What is Leadership?**

- Q.8 Discuss the importance and requirement of the inspection department in a manufacturing concern.
- Q.9 What is the role of automation in JIT?
- Q.10 Define sampling distribution.

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### **PART – B**

**(Analytical/Problem solving questions)**

**[4×8=32]**

**Attempt any four questions**

- Q.1 Explain the basic elements of JIT.
- Q.2 Discuss the importance of quality control in an industry why is statistical quality control preferred. Explain.
- Q.3 Explain the process of Bench Marking. Is it effective in bringing organization changes?
- Q.4 What is TQM and explain Deming's approach to TQM?
- Q.5 What do you understand by product quality improvement? Explain Taguchi Method.
- Q.6 Explain the secrets and steps towards establishing a successful Quality Circle (QC) program in a firm.
- Q.7 Explain ISO 9000 in detail and also discuss their importance.

### **PART – C**

**(Descriptive/Analytical/Problem Solving/Design Questions)**

**[2×15=30]**

**Attempt any two questions**

- Q.1 List out the seven new management tools. Explain them briefly.
- Q.2 Explain the customer perception of quality. Discuss about the dimensions of product and service quality.
- Q.3 What is reliability? Discuss reliability in series and parallel connection systems.
- Q.4 Narrate the process of conducting quality audit in a manufacturing firm and usage of various control charts.
- Q.5 Justify how Six Sigma can be used continuous quality improvement.