

Roll No.

Total No. of Pages : 02

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**B.Tech. (Ind. Engg. & Mgt.) (Spl. in TQM) (Sem.-7)**

**SIX SIGMA**

**Subject Code : IEM-701**

**M.Code : 71695**

**Time : 3 Hrs.**

**Max. Marks : 40**

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt All EIGHT questions from SECTION-A carrying TWO marks each.
2. Attempt any SIX questions out of EIGHT from SECTION-B carrying FOUR marks each.

**SECTION-A**

**1. Answer briefly :**

- a. Define sigma and write its defects.
- b. Write the project selection essentials.
- c. Write different sampling strategies.
- d. How to identify the patterns through data analysis?
- e. What do you understand by "should be" process map?
- f. What is process control system?
- g. Define Innovative principle.
- h. Name the best practices in Six Sigma.

**SECTION-B**

2. Explain the themes of Six Sigma.
3. How to build a SIPOC diagram, take a suitable example.

4. What are the different measurement methods? Discuss the validate measurement system (MSA).
5. Write note on :
  - a. Cause and effect diagram
  - b. Relations diagram
6. Discuss the structured design of experiments.
7. How you will verify the results of changes and improvements? Discuss the ways to monitor the improvements.
8. Discuss the phases of Design for Six Sigma (DFSS).
9. Compare the six sigma and ISO 9000 series.

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