



EASWARI ENGINEERING COLLEGE

DEPARTMENT OF MANAGEMENT STUDIES



BA 7054 – LEAN SIX SIGMA

Question Bank

Part A

1. Define Six Sigma.
2. What is Lean Manufacturing?
3. What is Process Tolerance?
4. Define Process Capability Index.
5. Differentiate Cp & Cpk.
6. How are Six Sigma & Process Tolerance related?
7. How are Six Sigma & Process Capability related?
8. How are Six Sigma & TQM related?
9. How are Six Sigma & Lean manufacturing related?
10. What is Cost of Poor Quality?
11. Illustrate with examples Cost of Doing Nothing.
12. List the different types of tools used in six sigma.
13. What is CTQ Tree?
14. What are the tools for measuring the performance of an organization?
15. Illustrate with examples, the applications of Histograms?
16. When are scatter diagrams used?
17. Draw cause and effect diagram with a suitable example.
18. Differentiate Pareto charts and Control charts.
19. List the different tools for analysis.
20. Differentiate SWOT and PESTLE Analysis.
21. Define overall equipment effectiveness.
22. What is Interrelationship diagram?

23. Name the tools for improvement.
24. What are the tools for control?
25. Explain forced field analysis.
26. What is Value Stream Mapping?
27. Brief about design for six sigma.
28. List the steps involved in DFSS.
29. What is FMEA?
30. Define RPN.
31. How are six sigma and leadership interrelated?
32. What is CAP?
33. How will you develop a communication plan?
34. Who is a stakeholder?
35. Do you think Communication plays an important role in six sigma?
36. Is committed leadership required in Six Sigma?
37. Compare DMAIC & DMADV.
38. Compare DMAIC & DFSS.
39. What are the tools for implementation of six sigma?
40. Depict SIPOC with a suitable diagram.
41. What is QFD?
42. What are the applications of QFD?
43. List the different components of QFD.
44. What are the factors to be considered in the selection of a project?
45. Define closed communication system.
46. What are the challenges faced in customer quality index?
47. Illustrate CPQ vs Six Sigma.
48. What are the challenges faced in implementing six sigma?
49. What is customer quality index?
50. Why is evaluation strategy required?
51. Define ROSS.

52. Differentiate ROSS and ROI.
53. What is the economics of six sigma?
54. Define continuous improvement.
55. What is Lean Manufacturing?
56. Illustrate the focus on waste and overproduction with example.
57. What are the 7 wastes?
58. Differentiate inventory in progress and work in progress.
59. How is Kaizen implemented in an organization?

Part B

1. Give a detailed report on how Six Sigma is related to TQM, lean manufacturing and process tolerance.
2. Explain in detail how cultural changes affect six sigma.
3. Briefly describe process capability and how to measure Cp and Cpk, with practical examples.
4. Enumerate the importance of cost of quality.
5. Explain the evolution of TQM and six sigma.
6. Explain the relationship between lean manufacturing and six sigma.
7. Explain the various tools for definition in detail, with neat sketches and examples.
8. List the different tools for measurement and describe any 4 in detail.
9. Illustrate the different tools for analysis and describe any 8 in detail.
10. List the different tools for improvement and describe any 5 in detail.
11. Enumerate the tools for control with examples.
12. Explain how a Milestone tracker diagram helps in continuous improvement of a firm.
13. How do you think an effective lean training program can be implemented in an organization?
14. Describe Earned value management in detail.
15. Explain DFSS and the steps in DFSS process.
16. How will you design an effective six sigma methodology for a concern?

17. Depict the process of FMEA with a sample form.
18. How do you think RPN value helps in effective six sigma methodologies?
19. Enumerate the management of change acceleration process in a firm and its advantages.
20. Illustrate how six sigma is related to committed leadership.
21. List the steps in developing an effective communication plan and depict a closed communication system.
22. Who are the stakeholders? What are the important roles of a stakeholder in an organization?
23. Explain the various tools for implementation in detail.
24. Describe SIPOC process in detail.
25. Explain house of quality with a suitable example.
26. Explain in detail about the concepts of a closed communication system.
27. How important is a customer to the firm and why is a quality index required? What are the various challenges faced?
28. Enumerate the various principles of CPQ and Six sigma.
29. List the various customer metrics to be considered with suitable examples.
30. Enumerate the challenges in implementing six sigma.
31. How do you evaluate continuous improvement methods? Illustrate with examples.
32. Define economies of six sigma. How will you calculate ROSS and ROI?
33. List the various factors to be considered during the implementation of Kaizen.
34. Discuss the importance of Lean Manufacturing in the industry.
35. Describe the 7 wastes in detail.
36. State the importance of Kaizen and its effective role in quality improvement.
37. Enumerate on six sigma continuous improvement process.