DECEMBER 2024 **P/ID 78015/RMB02**

Time : Three hours Maximum : 80 marks

PART A — ($10 \times 2 = 20$ marks)

Answer any TEN questions in 50 words each.

1. What is quality management and what does it include?

2. What is quality cost in quality management?

3. What for is the Baldridge award given?

4. What for is the Deming award given?

5. Describe what is meant by six sigma in quality management system.

6. Elucidate the concept of TQM in few lines.

7. Give the meaning of quality audit.

8. Enlist the meaning of control charts in two or three lines.

9. Enlist the major forms of FMEA.

10. What is Kaizen?

11. What is a Bath tub curve?

12. State the use of SPC methodology.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Write a short note on the key role of the six-sigma implementation.

14. Enumerate the phases of the lean six sigma.

15. How are the control charts designed?

16. Write a short note on quality assurance.

17. Write a short note on the four stages of a product life cycle.

18. Elucidate the importance of quality standards.

19. Write down the features of the lean concept.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. Explain the phases in the six sigma methodologies – DMAIC and DMADV.

21. Write a detailed note on the principles of quality standards.

22. What is meant by reliability engineering? What are the common tasks and techniques used in reliability engineering?

23. Define process management. Plot the importance and benefits of process management.

24. What is a bath tub curve? How does it look like? Explain the three periods of a product as presented in the bath tub curve.

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