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Total No. of Questions: 09

B.Tech. (Ind. Engg. & Mgt.) (Spl. in TQM) (Sem.-6)

LEAN MANAGEMENT

Subject Code: IEM-602 Paper ID: [70998]

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) What do you understand by Just in time management system? How does JIT system work? Enumerate its advantages.
- b) Distinguish between value added and non-value added activities. Can non value added activities be totally eliminated from workplace?
- c) What do you understand by 5S? Explain the elements of 5S.
- d) Define Kaizen. How do organizations implement kaizen at workplace?
- e) Define work cells. Why benefits cellular manufacturing offer to manufacturing organizations?
- f) Enumerate the salient characteristics of mini kaizen. Explain the sequence of events for mini kaizen.
- g) What do you understand by autonomous maintenance? How do organizations promote autonomous maintenance initiatives at workplace?
- h) Define autonomation. How do companies apply autonomation at workplace?

1 M-70998 (S109)-2760



SECTION-B

- 2. Briefly describe the historical perspective and origin of Toyota Production System. How did TPS promote inculcating innovation in organizations?
- 3. Explain and differentiate between 3M's of waste elimination.
- 4. How does TPS lead to problem solving and take problem solving as a potential improvement opportunity?
- 5. Differentiate between pull and push systems. How do push and pull kanbans work?
- 6. Differentiate between value stream mapping and process mapping. Give applications of both processes.
- 7. What do you understand by poka yoke? How does poka yoke philosophy lead to achievement of zero defects at workplace?
- 8. Giving a neat sketch, show various pillars of Total productive maintenance. Briefly describe various elements of TPM process.
- 9. Discuss the application of value stream mapping for improving quality at workplace.

2 | M-70998 (S109)-2760