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

LEAN MANAGEMENT

Subject Code : IEM-602

M.Code : 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 :

- What is Jidoka? Explain the principles of Jidoka to ensure that a company would deliver defect-free products.
- Explain and differentiate between 3M's of waste elimination.
- What do manufacturing firms need to implement 5S at workplace? Enumerate the keys to successful 5S implementation.
- Define talk time. How do firms evaluate talk time? Explain benefits and limitations of talk time.
- Define value stream mapping. Discuss five steps to value stream mapping study in an organization.
- How does TPS lead to cycle time reduction at workplace in manufacturing organizations?
- Define Overall Equipment Effectiveness. How OEE can be calculated? What indications regarding manufacturing system efficiency does OEE provide?
- How do organizations make technology fit with people and lean processes?

SECTION-B

2. Explain the terminology used in Toyota production system. Giving a neat sketch of TPS house, explain various elements of TPS.
3. Explain the causes of seven wastes associated with manufacturing systems.
4. How do organizations implement visual management at workplace? Explain the use of indicator, signal, control and takt boards for improving manufacturing system management.
5. Explain the characteristic features, advantages, limitations and applications of continuous flow and batch production systems.
6. Discuss the working, and advantages of various types of work cell layouts used in manufacturing organizations.
7. Explain PDCA approach for mitigation of defects at workplace.
8. Describe the TPM implementation procedure adopted by manufacturing organizations.
9. How do organizations evolve roles of top and middle managements to achieve quality under TPS?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.