CBCS Scheme

USN ☐☐☐☐☐☐☐☐☐☐

16/17MPD253

Second Semester M.Tech. Degree Examination, June/July 2018
Lean Manufacturing Systems

Time: 3 hrs.

Max. Marks: 80

Note: *Answer FIVE full questions, choosing one full question from each module.*

Module-1

1   a. Explain seven wastes in production system. **(08 Marks)**
    b. What are the steps required for implement of JIT? **(08 Marks)**

OR

2   a. Briefly explain JIT application for Job shops, with an example. **(08 Marks)**
    b. What is JIT logic; explain pull system according to Japanese approach with a suitable case study. **(08 Marks)**

Module-2

3   a. Define Kanban. Explain any two types of Kanban. **(08 Marks)**
    b. Discuss the two types of information given by TOYOTA to the suppliers. **(08 Marks)**

OR

4   a. Explain circulation of supplier is paternal manufacture. **(08 Marks)**
    b. How does the supplier Kanban sorting office managed by Toyota? Explain. **(08 Marks)**

Module-3

5   a. Explain the procedures for reducing the setup time. **(08 Marks)**
    b. Discuss the birth Lean Production of Toyota company. **(08 Marks)**

OR

6   a. Explain the following with respect to rise of lean production.
       i) Supply chain   ii) Future of Lean production. **(08 Marks)**
    b. Explain the lean production changing customer demand. **(08 Marks)**

Module-4

7   a. Explain multifunction worker and job rotation concept. **(08 Marks)**
    b. What are the features of Toyota Takaoka? **(08 Marks)**

OR

8   a. Explain the concept of prototype lean organization with neat sketch. **(08 Marks)**
    b. How was Lean production system diffused at NUMMI plant? Explain. **(08 Marks)**

Module-5

9   a. What are you mean by life time employment? Explain an example. **(08 Marks)**
    b. Write a short note on geographic spread and advantages of global enterprise. **(08 Marks)**

OR

10 a. Explain quality and productivity in full circle. **(08 Marks)**
    b. Write a short not on the following :
       i) Compare PULL system v/s push system
       ii) Compare Lean production v/s mass production. **(08 Marks)**

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