

CBBCS Scheme

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16MPD41

Fourth Semester M.Tech. Degree Examination, June/July 2018 Advanced Manufacturing Practices

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 that is found in manufacturing operations. Explain the effect in detail. (08 Marks)
b. List and explain the basic elements of JIT. (08 Marks)

OR

- 2 a. Enumerate on standardization of operations and automation in JIT system. (08 Marks)
b. Explain the role of process layout in shortening lead time. (08 Marks)

Module-2

- 3 a. With neat sketch, explain 'Later Replenishment system' by Kanban. (08 Marks)
b. Briefly describe the emergency Kanban and signal Kanban with neat sketches. (08 Marks)

OR

- 4 a. Explain the basic framework of TPS with block diagram. (08 Marks)
b. Describe the withdrawl Kanban and production ordering Kanban with neat sketches. (08 Marks)

Module-3

- 5 a. Explain with neat sketches, how "Cutting of lot sizes and cutting of set up times puts JIT into motion. (10 Marks)
b. Explain in detail the concept of Just in time. (06 Marks)

OR

- 6 a. With a neat block diagram, explain how various factors are affected positively by blending TQC with JIT. (10 Marks)
b. Discuss responsibility effects in detail. (06 Marks)

Module-4

- 7 a. With respect to TQC techniques and aids, explain Fool proof devices and tools of analysis. (10 Marks)
b. List the various TQC categories and concepts. (06 Marks)

OR

- 8 a. Discuss briefly Daily Machine checking and full capacity scheduling. (08 Marks)
b. Explain small cot sizes and house keeping with respect to total quality control. (08 Marks)

Module-5

- 9 a. Discuss with examples two modes of dedicated production lines namely overlapped production line and daily schedule production line. (12 Marks)
b. Discuss automated production lines. (04 Marks)

OR

- 10 a. Explain the following with respect to JIT:
(i) Pseudo Robots. (10 Marks)
(ii) Computer aided design and manufacturing. (10 Marks)
b. Briefly explain frame welding with neat sketch. (06 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.