

Exam. Code: 0943

Sub. Code: 6739

2074

B.E. (Mechanical Engineering)

Seventh Semester

MEC-704 (g): Industrial Engineering

Time allowed: 3 Hours

Max. Marks: 50

*NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Part.*

x-x-x

Q-1)

- 1) Give the Therblig symbols and colours for Search and Inspect?
- 2) What is microdata?
- 3) What are the benefits of Business Process Reengineering?
- 4) Give the three pillars of Kaizen.
- 5) Differentiate between Production Management and Industrial Engineering

(5x2=10)

**PART A**

Q-2)

- 1) What are direct and indirect benefits of Total Productivity Management?
- 2) What are the eight pillars of Total Productivity Management?

(5,5)

Q-3)

- 1) Explain the three elements of concurrent engineering.
- 2) What are the various tools of Industrial Engineering?

(5,5)

Q-4)

- 1) What are the factors affecting National Productivity?
- 2) What are the various tools of Industrial Engineering?

(5,5)

**PART B**

Q-5)

- 1) How are SIMO charts used for measuring micromotions?
- 2) How is method study different from micro motion study?

(5,5)

P.T.O.



(2)

Q-6)

- 1) What are the principles of motion economy?
- 2) What are the contributions of Taylor and Gilberth towards Industrial Engineering?

(5,5)

Q-7)

Write short notes on any 2 of the following:-

- 1) Merit Rating
- 2) Time study
- 3) Facility Location factors

(5,5)

X-X-X