

Paper ID [IE503]

(Please fill this Paper ID in OMR Sheet)

M.Tech.

OPERATIONS MANAGEMENT (IE - 503)

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) All questions carry equal marks.

- Q1)** (a) What is a production system? Discuss the main characteristics of batch production system.
- (b) Compare and contrast between Project and Mass production systems.
- Q2)** (a) Discuss the relative advantages and disadvantages of process and product type layouts.
- (b) What are the main objectives of a good plant layout.
- Q3)** (a) Discuss the various factors to be considered for finalizing plant's location.
- (b) Scheduling prepares a time table indicating time and rate of production? Explain critically.
- Q4)** (a) Discuss the main objectives and functions of PPC?
- (b) What is routing? Draw a typical route sheet showing the information it has to contain.
- Q5)** (a) Explain and differentiate the following terms: Value, worth, function and cost.
- (b) What is value engineering? Explain its purpose and the general procedure to perform it.

Q6) (a) Explain with examples the significance of the term standardisation.

(b) Discuss the need, advantages and composition of quality circles.

Q7) (a) Discuss the various functions to be performed by purchase department and store section?

(b) What are the various types of purchasing with examples.

Q8) Write short notes on the following.

(a) Maintenance Management.

(b) Waste Management.