## **FACULTY OF ENGINEERING**

B.E. 4/4 (Mech Prod.) II-Semester (Make-up) Examination, August 2012

Subject: Production and Operations Management

Time: 3 Hours Max. Marks: 75

Note: Answer all questions of Part – A. Answer any five questions from Part-B.

## PART - A (25 Marks)

- 1. What relationships exist between layout and location decisions?
- 2. Contrast between operation charts and activity charts.
- 3. What factors should be considered in selecting or planning horizon?
- Distinguish between control chart for variables and attributes.
- 5. What is KANBAN?
- 6. Explain the concept of total quality control.
- 7. State the advantages of screw conveyor system.
- 8. Describe the functions of management.
- 9. Explain how strategy and quality interrelate.
- 10. Discuss the steps in process capability study.

## **PART - B** (5x10=50 Marks)

- 11.(a) Distinguish between batch and mass production system.
  - (b) Describe flexible manufacturing system.
- 12.(a) Identify the primary behavioural factors involved in product oriented layout design.
  - (b) Outline the advantages and disadvantages of the three pure strategies of aggregate planning.
- 13.(a) Describe different types of material handling systems.
  - (b) Sketch and explain the principle of hydralic conveying systems.
- 14.(a) Describe the process of constructing a 'p' chart and state their applications.
  - (b) Explain work sampling with an example.
- 15.(a) Describe operating characteristic curve with an example.
  - (b) Explain different types of wave measurement techniques.
- 16.(a) Explain Taguchis quality loss function with an illustration for estimating the same.
  - (b) Explain Deming's theory of variance.
- 17. Write short notes on any two of the following:
  - (a) Types of Business firms
  - (b) Loading assignment algorithm
  - (c) Pre determined time study

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