(Following Paper ID	and Roll No.	to be filled in	your Answer Book
PAPER ID: 2544	Roll No.		

B. Tech.

(SEM. VI) THEORY EXAMINATION 2010-11 PRODUCTION PLANNING AND CONTROL

Time: 3 Hours Total Marks 100

Note: (1) Attempt all the questions.

- (2) All questions carry equal marks
- (3) Be precise in your answer.
- (4) Assume suitable value for missing data it any.
- 1. Attempt any four parts of the following: $(5 \times 4 = 20)$
 - (a) Differentiate between "Job Order Production" and "Batch Production" system.
 - (b) Explain using schematic diagram the different methods of forecasting and the situations in which these are appropriate.
 - (c) What is replacement? Describe some important types of replacement situation and replacement policies in brief.
 - (d) What is the simple median model? How is it used to find the best location of plants?

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- (e) Explain the various factors to be considered in the determination of optimal capacity of a facility.
- (f) Compare the manual and quantitative models for process layout design?
- 2. Attempt any four parts of the following

 $(5 \times 4 = 20)$

- (a) Describe the single stage aggregate plann. Idecision structure. Name the decision processes used for aggregate planning.
- (b) How is the master schedule different from master production schedule?
- (c) Make a flow diagram to show all the different methods/ priority rules of sequencing.
- (d) What are the advantages and disadvantages of the chase plan?
- (e) What is the purpose of phantom bills, K-bills, and modular bills of material?
- (f) Describe netting, explosion and time phasing in brief
- 3. Attempt any **two** parts of the following:

 $(10 \times 2 = 20)$

- (a) (i) Describe the ways to collect information from manufacturing shops for progress control.
 - (ii) How is the concept behind ABC classification useful for managing a manager's time? Explain.

- (b) (i) What are the merits and demerits of centralised and decentralised buying?
 - (ii) How would you fit inventory control as a part of the wider organizational strategy? Discuss.
- (c) (i) What is 'negotiation' in the purchasing function'?
 - (ii) What is shortage cost? Is it difficult to estimate? If so why?
- 4. Attempt any two of the following: $(10 \times 2 = 20)$
 - (a) Define standardisation, specialisation, simplification and diversity. Discuss the factors which affect simplification and diversification.
 - (b) What are unnecessary costs? How do they enter the product? How are they identified?
 - (c) Write short notes on
 - (i) Value analysis tests
 - (ii) Approach for value analysis
- 5. Attempt any two parts of the following: $(10 \times 2 = 20)$
 - (a) What is the difference between MRP and ERP? Discuss.
 - b) What is concurrent engineering? How does it speed up product development?
 - c) (i) What are the limitation of CPM?
 - (ii) Explain the managerial significance and use of Total and Free Floats.