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**Question Paper Code : 72030**

B.E./B.Tech, DEGREE EXAMINATION, APRIL/MAY 2017.

Fifth/Sixth/Eighth Semester.

Mechanical Engineering

IE 6605 — PRODUCTION PLANNING AND CONTROL

(Common to Industrial Engineering / Mechanical and Automation Engineering /  
Production Engineering)

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the needs for PPC?
2. What is meant by breakeven point?
3. Define the term Work Study.
4. What are the techniques used for work measurement?
5. State the need for Product Planning.
6. What are the steps in process planning?
7. What is Master Scheduling?
8. What is meant by Kanban system?
9. State the classification of inventory.
10. What is meant by EOQ and JIT?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss in detail about the various functions of Production planning and control. (16)

Or

- (b) Explain with example the various aspects of Product development and design. (16)

12. (a) Write short notes on the following :

(i) Micro motion (8)

(ii) Memo motion study. (8)

Or

- (b) Explain briefly the following techniques of work measurements.

(i) Time study (5)

(ii) Production study (5)

(iii) Work sampling. (6)

13. (a) Explain the phrase "Extending the original product information" with suitable examples. (16)

Or

- (b) Explain the analysis of process capabilities in a multi product system. (16)

14. (a) Explain the scheduling procedure with suitable example. (16)

Or

- (b) Discuss the concepts, inputs, characteristics, working, output and benefits of MRP. (16)

15. (a) Explain the purpose of maintaining inventory in any production unit. (16)

Or

- (b) Explain ABC analysis and its significance in the inventory control with suitable examples. (16)