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**Question Paper Code : 20715**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Sixth/Eighth Semester

Mechanical Engineering

IE 6605 – PRODUCTION PLANNING AND CONTROL

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

(Regulations 2013)

(Also common to PTIE 6605 – Production Planning and Control for B.E. (Part-Time)  
Seventh Semester – Mechanical Engineering Regulations 2014)

Time : Three hours

Maximum : 100 marks

(Codes/Tables/Charts/to be permitted, if any may be indicated)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the phases of PPC?
2. What is meant by standardization?
3. Define method study.
4. What is a flow process chart?
5. List the factors affecting production planning.
6. State the main functions of process planning.
7. What are the different techniques of loading and scheduling?
8. Define dispatching.
9. What are the types of inventory control?
10. What is order cycle?

PART B — (5 × 13 = 65 marks)

11. (a) Explain the different types of production systems. Differentiate between them. (13)

Or

- (b) Write detailed notes on :
- (i) Standardisation (5)
  - (ii) Simplification (4)
  - (iii) Specialisation (4)

12. (a) State and explain in brief about the various steps involved in conducting the work study procedure. (13)

Or

- (b) Explain the following terms,
- (i) Work sampling (8)
  - (ii) PMTS. (5)

13. (a) What is value analysis? Describe the basic steps involved in the value analysis. (13)

Or

- (b) What do you understand by machine balancing? Also explain the effect of balancing on number of machines required with an illustration. (13)

14. (a) Write short notes on the types of scheduling techniques. (13)

Or

- (b) What is progressing? Explain its function. Also write short notes about 'recording progresses'. (13)

15. (a) What do you understand by inventory control? List out its objectives. (13)

Or

- (b) What is ABC analysis? Explain the procedure for ABC analysis and give its advantages and disadvantages. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Explain how to conduct time — study and motion — study in a production unit. Illustrate with a case study. (15)

Or

- (b) Explain the implementation procedure of ERP in an automobile auxiliary unit. (15)