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Question Paper Code : 90775

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Sixth/Seventh/Eighth Semester

Industrial Engineering

IE 8693 — PRODUCTION PLANNING AND CONTROL

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

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the objectives of planning and control.
2. What is break even analysis?
3. Differentiate between micro motion and memo motion study.
4. What is known as method study?
5. What is the significance of product planning?
6. State the pre-requisite information needed for process planning.
7. Why are Gantt charts used?
8. What is the purpose of line of balance?
9. What is a two-bin system?
10. How can economic order quantity be determined?

PART B — (5 × 13 = 65 marks)

11. (a) State the functions of production control and explain about standardization in detail.

Or

- (b) Enumerate about the different types of production with suitable sketches.

12. (a) Explain the basic procedure of method study in detail.

Or

- (b) Briefly explain about any two techniques of work measurement and their significance.

13. (a) Elaborate about the different problems in lack of product planning with suitable examples.

Or

- (b) Describe the various steps in process planning and explain their importance.

14. (a) Explain about the different types of production control systems.

Or

- (b) State the basic scheduling problems and explain the significance of expediting.

15. (a) "Inventory control is critical in a factory" – Justify this statement with suitable reasons and examples.

Or

- (b) Explain how economic order quantity and economic lot size is determined in detail.

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PART C — (1 × 15 = 15 marks)

16. (a) (i) Mention and explain about the techniques used to identify a company's most valuable products and match its customer needs. (8)
- (ii) Elaborate about the technique used to reduce inventory holding costs. (7)

Or

- (b) (i) Explain about the computer-based system that can create detailed production schedule using real time data. (8)
- (ii) Enumerate about the software used by many organizations to manage their day-to-day business activities. (7)

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