Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : Q 2304

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Eighth Semester

(Regulation 2004)

Mechanical Engineering

ME 1015 — PRODUCTION PLANNING AND CONTROL

(Common to B.E. (Part-Time) Seventh Semester Regulation 2005)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is production planning?

2. What is meant by standardization?

3. Differentiate between micro motion and macro motion study.

4. Define time study.

5. What is value analysis?

6. What is meant by machine balancing?

7. List the key functions of the production scheduling and control.

8. What is MRP? List the various inputs required for it.

9. Mention at least four reasons for keeping an inventory.

10. Define Just-In-Time.

PART B — (5 × 16 = 80 marks)

11. (a) Explain different types of production systems. Differentiate between them. (16)

Or

(b) Discuss in detail : (8 + 8)
   (i) Break-Even Analysis
   (ii) Samuel Eilon Model

12. (a) State and explain in brief the steps involved in conducting the method study procedures. (16)

Or

(b) Write short notes on : (6 + 5 + 5)
   (i) Work sampling
   (ii) Synthetic data
   (iii) PMTS.

13. (a) Explain the importance of process planning with reference to production control. Discuss the activities involved in process planning. (16)

Or

(b) Write detailed notes on analysis of process capacities in a multi-product system. (16)

14. (a) What are Gantt charts? Explain their types? How are they constructed? (16)

Or

(b) Write short notes on : (8 + 8)
   (i) Aggregate run-out method of batch scheduling.
   (ii) Line-of—balance method.

15. (a) Write detailed notes on computer integrated production planning and control. (16)

Or

(b) Define ERP. Explain its main functions and methodology adopted in implementing ERP. (16)

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