Reg. No. : | | | | | | | | | | | | |

Question Paper Code: 1148093

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV / DEC 2024
Eighth Semester
Mechanical Engineering
IE8693 – PRODUCTION PLANNING AND CONTROL
(Regulation 2017)

Time: Three Hours | Maximum: 100 Marks

Answer ALL questions

PART – A (10 x 2 = 20 Marks)

1. List the various functions/activities of production planning and control?

2. What is Break Even Point and mention its significance?

3. Give any 5 symbols of therbligs.

4. What is PMTS? List its benefits.

5. Distinguish between values analysis and value engineering.

6. What is machine capacity?

7. Define perpetual loading.

8. List out any five priority sequencing rules.

9. How can you classify inventor based on material flow?

10. What are the advantages of ABC analysis?

PART – B (5 x 13 = 65 Marks)

11. (a) Enumerate the activities or functions involved in production planning and control in an organization. (13)

(OR)

(b) Explain the economics of new design with examples. (13)

12. (a) Describe the various steps/procedure for conducting time study. (13)

(OR)

(b) Briefly discuss the various work measurement techniques. (13)

13. (a) Explain various stages/steps involved in value analysis. Discuss value engineering. (13)

(OR)

(b) Conduct a study report on pre requisite information needed for process planning. (13)

14. (a) Explain the process flow of obtaining the master production schedule for a system with examples. (13)

(OR)

(b) Explain the various components of MRP and their functions and objectives. (13)

15. (a) Write the purpose of maintaining inventory in a production unit (or) Purpose of holding stock. (13)

(OR)

(b) Demonstrate the computer integrated production planning systems. (13)

PART – C (1 x 15 = 15 Marks)

16. (a) Enlighten the various aspects of Product design and development or Product analysis. (15)

(OR)

(b) Illustrate the analysis of process capabilities in a multi-product system. (15)

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