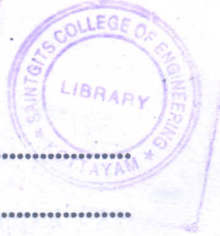


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Reg. No.....

Name.....



**B.TECH. DEGREE EXAMINATION, MAY 2015**

**Seventh Semester**

Branch : Mechanical Engineering / Automobile Engineering

ME 010 705/AU 010705—INDUSTRIAL ENGINEERING (ME, AU)

(New Scheme—2010 Admission onwards)

[Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.*

*Each question carries 3 marks.*

1. Write a note on the applications of Industrial Engineering.
2. Mention the principles of plant layout.
3. What is meant by Economic Order Quantity ?
4. Define Ergonomics.
5. What is meant by Quality Function Deployment ?

(5 × 3 = 15 marks)

**Part B**

*Answer all questions.*

*Each question carries 5 marks.*

6. Highlight the key functions of an Industrial Engineer.
7. Provide a note on the factors influencing plant layout.
8. Mention the key phases involved in purchasing in case of medium and large scale enterprises.
9. Explain the key phases involved in motion studies.
10. Discuss the applications of Control Charts.

(5 × 5 = 25 marks)

**Part C**

*Answer all questions.*

*Each question carries 12 marks.*

11. Define the term Productivity. List and explain the factors influencing productivity.

*Or*

12. Explain the factors to be analyzed in product development and design.

Turn over



13. Explain different types of plant layout. Support your answer with relevant example for each type.

Or

14. Elaborate on the factors to be considered for selecting a material handling equipment.

15. What are the costs associated with determining the Economic Order Quantity. Explain in detail.

Or

16. List and explain the commonly followed buying techniques followed by organizations in making purchases.

17. Explain in detail different techniques to record the activity selected for method study.

Or

18. Define merit rating. State the characteristics which determine the merit of an individual.

19. What is meant by Benchmarking? Explain the broad categories of Benchmarking.

Or

20. Explain different types of variable type control charts.

(5 × 12 = 60 marks)

