

G 746

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Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, MAY 2014**

**Seventh Semester**

Branch : Automobile Engineering / Mechanical Engineering

AU 010 705 / ME 010 705 – INDUSTRIAL ENGINEERING (AU, ME)

(2010 Admissions)

[Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.*

*Each question carries 3 marks.*

1. Distinguish between Production and Productivity.
2. What is cellular manufacturing system?
3. How will you calculate material handling cost?
4. What is VED analysis? Where it is done?
5. List the tools and techniques used in methods study.

(5 × 3 = 15 marks)

**Part B**

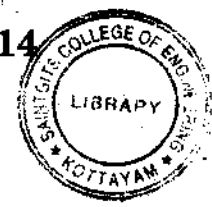
*Answer all questions.*

*Each question carries 5 marks.*

6. What is the purpose of standardization within a plant?
7. Explain different types of "Handling systems".
8. Distinguish between Purchase requisition and Store requisition.
9. Write a brief note on the duties and responsibilities of a material manager.
10. Explain how you will integrate Operation and operator.

(5 × 5 = 25 marks)

**Turn over**



**Part C**

*Answer all questions.*

*Each question carries 12 marks.*

11. Write pros and cons of the following production methods :

- (a) Intermittent method.
- (b) Continuous method.

*Or*

12. Briefly explain the various activities involved in product design and development.

13. Write a brief note on Unit load concept. What are the different types of unit loads?

*Or*

14. Discuss various means of material handling, which are commonly used in Automobile production plants.

15. Describe the purchasing procedure for a medium size industry.

*Or*

16. What is economic order quantity? What are the factors considered for arriving it? Derive a formula for the economic order quantity.

17. Define "Micro motion study". Give few suitable examples of its application. Why it has been used as such accelerated rate in recent years?

*Or*

18. What do you mean by the term "Rating" in time study? What are the various methods used for Rating? Describe them in detail.

19. State the important objectives of quality control. Briefly explain how these objectives are achieved in engineering industry.

*Or*

20. Discuss the use of frequency distribution charts for quality control. State the advantages of using statistical methods for quality control.

(5 × 12 = 60 marks)

