

G 1343

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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Seventh Semester

Branch : Mechanical Engineering / Automobile Engineering

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

Time : Three Hours

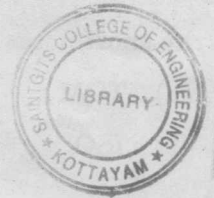
Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Explain ABC analysis.
2. What do you understand by product life cycle ?
3. Distinguish between product and process layout.
4. Discuss various vendor rating system.
5. Explain different methods for job evaluation.



(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Briefly explain the evolution of Industrial Engineering.
7. Explain benefits of value Engineering.
8. What are the objectives and principles of plant layout ?
9. What are the objectives of work study ?
10. Explain Benchmarking.

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. What are the functions of an Industrial Engineer ?

Or

12. Explain the factors affecting the productivity and briefly explain the techniques for improving productivity.

13. What are the applications of value analysis and value engineering ?

Or

Turn over

14. Explain the difference between cellular manufacturing system and agile manufacturing.
15. Explain about vendor managed inventory and briefly explains the procedure of purchasing.

Or

16. Explain the objectives of Job evaluation and merit rating, briefly explain merit rating systems.
17. Explain the procedure for motion study.

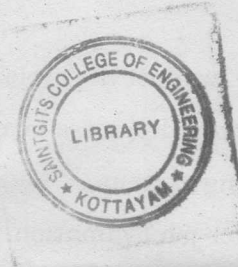
Or

18. What are the Objectives of Human Engineering ?
19. Distinguish between various controls charts used in statistical quality control.

Or

20. Write short notes about :

- (a) TQM ;
- (b) ISO.



(5 × 12 = 60 marks)