Seventh Semester B.Tech. Degree Examination, December 2016
13.705 : INDUSTRIAL ENGINEERING AND MANAGEMENT (E) (2013 Scheme)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer all questions. Each question carries 2 marks. (10×2=20 Marks)

1. Define management.
2. Distinguish between recruitment and training.
3. What are the sources of working capital in an organisation?
4. What are the different types of plant layout?
5. What is Rowan wage incentive plan?
6. What is merit rating and what are the different methods of merit rating system?
7. Distinguish between batch and continuous production systems.
8. What is the six sigma concept in quality engineering?
9. What is called benchmarking?
10. Distinguish between PERT and CPM network diagrams.

PART – B

Answer one full question out of the 2 from each Module. (4×20=80 Marks)

Module – I

11. a) What is scientific management? Explain the contributions of Henry Gantt and Gilbreth in the development of scientific management.

10

b) Explain any two training methods for the development of knowledge and skill of employees in an organisation.

10

OR

P.T.O.
12. a) Explain the functions of personnel management.
   b) What is meant by organisation theory? Explain the characteristics of classical organisation theory.

   **Module – II**

13. a) Explain the functions of financial management.
   b) Explain any two types of process charts used for recording information in method study.

   OR

   b) Explain computerized layout planning techniques. What are its merits and demerits?

   **Module – III**

15. a) What is a wage incentive plan? Compare any two types of wage incentive plans and state its merits and demerits.
   b) What is industrial fatigue? Explain the causes and methods of eliminating industrial fatigue.

   OR

16. a) Explain the functions of production planning and control in a manufacturing organisation.
   b) What is inventory management system? Explain different types of inventory models used in the production process.

   **Module – IV**

17. a) What are control charts? Explain different types of attribute control charts used in quality control process.
   b) What is total quality management? Explain the principles of total quality management.

   OR

18. a) What is ISO 9000 series of standards? Explain the process approach principle of ISO standards for achieving the continuous improvement in quality.
   b) What is market segmentation? Explain any two criteria used for the market segmentation process.