Seventh Semester B.Tech. Degree Examination, November 2017
(2013 Scheme)
13.705 : INDUSTRIAL ENGINEERING & MANAGEMENT (E)

Time : 3 Hours   Max. Marks : 100

PART – A

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

1. Define organisation.

2. What is break even analysis?

3. What are methods used for calculating depreciation?

4. Distinguish between method study and time measurement.

5. What is Halsey wage incentive plan?

6. Distinguish between ranking method and factor comparison method.

7. What is industrial fatigue and what are its effects?

8. Distinguish between variable control charts and attribute control charts.

9. What is ISO 9000 series in quality engineering?

10. What is market segmentation?

PART – B

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

Module – I

11. a) Explain the functions of management.

     b) Explain the procedure for developing an organisational structure in a manufacturing industry.

     OR

P.T.O.
12. a) Explain the process of recruitment and selection in an organisation. 

b) A product is sold at a price of Rs. 15 per unit and its variable cost is Rs. 10 per unit. The fixed expenses are Rs. 1,50,000. Find:
   i) BEP in values and units
   ii) Profit made when sales are 45,000 units
   iii) Sales to be made to earn a Net Profit of Rs. 75,000.

Module – II

13. a) What is a plant layout? Explain the objectives and advantages of a good plant layout.

b) What is working capital? Explain the factors affecting the working capital management.

OR

14. a) Define financial management. Explain the internal and external sources of finance for an organization.

b) What is a process chart? Explain different types of process charts used in the work study.

Module – III

15. a) What is called standard time? Explain various allowances used in the process of calculating standard time.

b) Explain the causes of industrial disputes in a manufacturing organisation.

OR
16. a) What are the objectives of job evaluation and merit rating system? Explain any one method each for job evaluation and merit rating system.

b) Using sketches explain the economic order quantity of inventory management system.

17. a) What is six sigma? Explain the development process of six sigma in quality management.

b) What is product life cycle? Explain different stages of product life cycle.

OR

18. a) What is benchmarking? Explain different types of benchmarking methods adopted by the management.

b) What is project management? Explain and compare CPM and PERT techniques used for the planning and evaluation in project management.