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B.E./B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, DEC / NOV 2013

MANUFACTURING ENGINEERING

SIXTH SEMESTER

**MN472/MF9034 – VALUE ENGINEERING AND RE-ENGINEERING**

(REGULATIONS 2004/2008)

Time: 3 hr

Maximum Mark: 100

Answer ALL questions

**PART A – (10 x 2 = 20 marks)**

1. What are the reasons for hidden cost?
2. Give detail on 'quality gap'.
3. Why is team work important?
4. Mention the importance of auditing.
5. What is idea listing?
6. What are the objectives of implementation phase of a VE study?
7. What are the benefits of Re-engineering?
8. What is process improvement?
9. What is work flow analysis?
10. Quote few reasons that result in failure of implementing reengineering projects.

**PART B – (5 x 16 = 80 marks)**

11. a.i. What are the guidelines and checklist for performing the information phase of a value engineering study. (12)
- ii. What are the objectives of evaluation phase. (4)
12. a.i. Explain how value engineering methodology secures addition to value to a product. (8)
- ii. Explain briefly various phases of a value engineering study. (8)

(OR)

b. Explain any 16 techniques employed in a value engineering study for improving the effectiveness of an item. (16)

13.a. How should the member of a value engineering team be selected. (16)

(OR)

b. Briefly explain the sixteen ways to solve value engineering problems creatively. (16)

14. a. i. Explain the possible reasons for why an organization should hesitate taking up a reengineering project. (8)
- ii. Explain the process re-engineering with an example. (8)

(OR)

- b.i. Discuss how the team should be earnest in meeting the PMI leadership expectations. (8)
- ii. Write detailed notes on Service improvement models. (8)

- 15.a.i. Explain workforce analysis techniques. (8)
- ii. Explain the value analysis approach. (8)

(OR)

- b. i. Explain Pareto analysis with an example. (8)
- ii. Write detailed notes on the road blocks of implementing reengineering projects. (8)