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B.E/B.Tech. (FT) DEGREE END SEMESTER EXAMINATION APRIL/MAY 2001

INDUSTRIAL ENGINEERING BRANCH

VIII SEMESTER- (REGULATION 2004)

IE510 –PRODUCTIVITY MANAGEMENT AND RE-ENGINEERING

Answer All Questions

PART 'A' (10 x 2 = 20 Mark)

1. Write the difference between production and productivity
2. Define total factor productivity.
3. Define productivity management.
4. Write the difference between industrial engineer and productivity engineer.
5. Write any three measures for international comparison of productivity.
6. What are tangible outputs?
7. What are the three version of TPM?
8. Write any two limitations of partial measures of productivity
9. What is business process?
10. Write any two points "Need for process Redesign"

PART 'B' (5 x 16 = 80 Mark)

11. Explain the factors affecting productivity.
- 12 a) i) Discuss briefly the importance of the productivity-cycle concept for an organization that is interested in its productivity level and growth rate. (8)
ii) Describe briefly how you would go about setting up a productivity-management process in. (8)
 - a) A company manufacturing dishwashers
 - b) A company selling insurance

OR

- 12 b) Explain the different methods of measuring unit labour costs and explain the factors concerned with the unit labour cost in the international comparison.
- 13 a) i) Write the benefits of productivity measurement at the national level. (8)
ii) Write the benefits of productivity measurement in organizations. (8)

OR

- 13 b) i) Explain the Kendrick-creamer model for measuring productivity. (8)
ii) Comment about Craig-Harries model for measuring productivity. (8)

14a) Derive the relationship between productivity of firm as function of total productivities of individual products? Explain the relation with numerical example.

OR

14 b) Describe step-by-step the productivity –measurement strategy, using the TPM in a manufacturing or service organization?

15 a) What is the significance of the productivity evaluation-tree? How many feasible path exist for $\Delta TP_{it} = 0$, $\Delta TP_{it} < 0$, $\Delta TP_{it} > 0$

OR

15 b) Explain the steps for implementing BPR.