



**M.E DEGREE EXAMINATIONS: JAN 2015**

(Regulation 2014)

First Semester

**INDUSTRIAL ENGINEERING**

P14IET101: Productivity Management and Re-engineering

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Deflator is directly proportional to \_\_\_\_\_ [K<sub>2</sub>]
  - a) Current year price
  - b) Base year price
  - c) Both A&B
  - d) No dependency
2. Examine the following two statements and select the answers to the items using the codes given below. [K<sub>4</sub>]

Statement 1: Total productivity is directly proportional to total tangible output.  
Statement 2: Total productivity is indirectly proportional to total tangible input.

  - a) Both Statement 1 and 2 are individually true.
  - b) Both Statement 1 and 2 are individually false.
  - c) Statement 1 is true but Statement 2 is false.
  - d) Statement 2 is true but Statement 1 is false.
3. The ratio of total output to individual input is called \_\_\_\_\_ [K<sub>2</sub>]
  - a) Capital Productivity
  - b) Energy Productivity
  - c) Material Productivity
  - d) Partial Productivity
4. Identify the correct sequence of reengineering model phases. [K<sub>2</sub>]

1. Preparing for change 2. Planning for change 3. Designing change 4. Evaluating change

  - a) 1-2-3-4
  - b) 1-3-4-2
  - c) 2-4-3-1
  - d) 4-1-2-3
5. The \_\_\_\_\_ of organizational reengineering, preparing for change, sets the foundation for future activity. [K<sub>2</sub>]
  - a) Phase I
  - b) Phase II
  - c) Phase III
  - d) Phase IV



18. List the types of organization. [K<sub>2</sub>]  
19. What are the four work forces preparation foundation blocks? [K<sub>2</sub>]  
20. What is the working definition of organizational behavior? [K<sub>2</sub>]

**PART C (10 x 5 = 50 Marks)**

21. Explain the various models of productivity and compare each model. [K<sub>4</sub>]  
22. Distinguish the factors influencing productivity. [K<sub>4</sub>]  
23. Examine the dynamics of productivity change and how it brings about chain reaction throughout the society. [K<sub>4</sub>]  
24. Explain the factors needed to change an organization. [K<sub>2</sub>]  
25. Explain the key points on planning for Reengineering. [K<sub>2</sub>]  
26. Prepare the mission and vision for an institution. [K<sub>6</sub>]  
27. Differentiate the three basic planning approaches. [K<sub>4</sub>]  
28. Explain the responsibility and roles of leader. [K<sub>2</sub>]  
29. Write short notes on: (i) steering committee. (ii) Reengineering Czar. [K<sub>2</sub>]  
30. Explain the key points for succeeding at reengineering. [K<sub>2</sub>]

**PART D (2 x 10 = 20 Marks)**

31. The following information regarding the output produced and inputs consumed for a particular time period for a particular company given below: [K<sub>4</sub>]
- |                   |              |
|-------------------|--------------|
| Output            | = Rs. 10,000 |
| Human input       | = Rs. 3,000  |
| Material input    | = Rs. 200    |
| Capital input     | = Rs. 300    |
| Energy input      | = Rs. 100    |
| Other misc. input | = Rs. 50     |
- The values are in terms of base year rupee value. Calculate various productivity indices.
32. Illustrate the reengineering steps with relevant case studies. [K<sub>4</sub>]

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