MNЗABH

Time : 2 Hrs   **Marks : 60**

Instructions :   1. **All questions are compulsory**

                                        2. **Figures to the right indicate marks**

Q.1 **A)** Explain any 10 points from Demings 14 points.   **8M**

        B) Explain product dimensions with example.   **7M**

                                                    OR

        C) Explain Quality circle. What are its advantages & limitations?   **8M**

        D) What is mean by productivity? Find total productivity, partial productivity
              & total factor productivity for a manufacturing company. The input &
              output are as follows.   **7M**

Input (Rs. Lakhs)	
Labor	600
Material	700
Capital	1200
Energy	500
Output (Rs. Lakhs)	4500

Q.2   **A)** What is mean by suggestion scheme? How it can be implemented
              successfully in an organization?   **8M**

        B) Write short note on   **7M**

              i) Learning curve   ii) Wage incentive plan

                                                    OR

        C) Explain the term TPM? Explain eight pillars of TPM.   **8M**

        D) What is mean by Job rotation? State its advantages & limitations.   **7M**

Q.3 **A)** Explain SMED in detail. **8M**

  B) Write short note on **7M**

  Brainstorming ii) Kaizen

OR

  C) What is mean by TQM? Explain eight building blocks of TQM. **8M**

  D) Explain Muri , Mura & Muda. **7M**

Q.4 **A)** What is mean by Six Sigma? Explain its structure. **8M**

  B) Explain the term Kanban. How it is beneficial to an organization? Explain its types. **7M**

OR

  C) Define Poka yoke? Explain its devices. **8M**

  D) What is mean by Kaizen Gemba? Explain its types. **7M**