Printed Pages : 1   **Roll No.** ☐☐☐☐☐☐☐☐☐☐☐   **NHU601**

B. TECH.
THEORY EXAMINATION (SEM–VI) 2016-17
INDUSTRIAL MANAGEMENT

Time : 3 Hours   *Max. Marks : 100*

Note : *Be precise in your answer. In case of numerical problem assume data wherever not provided.*

SECTION-A

1   **Attempt all parts. All parts carry equal Marks.**   **(10x 2=20)**
   a)   What are the applications of industrial management in engineering?
   b)   Define Dayabhaga and Mitakashara system in joint Hindu family business.
   c)   Differentiate between 'mass production and 'job production' systems.
   d)   What are THERBLIG?
   e)   Define the term 'Ergonomics'.
   f)   Define Statistical Quality Control.
   g)   Differentiate between production and productivity.
   h)   What is TQM (total quality management)?
   i)   Enlist any two symbols of process chart.
   j)   What do you understand by 'J.I.T.' and 'Kanban System'?

SECTION-B

2   **Attempt any five questions:**   **(5x10=50)**
   a)   Write a detailed note on the development of industrial management.
   b)   Is production management is different from operation management? Describe the intermittent and continuous production system.
   c)   Define 'Work Study' and state its objectives. Differentiate between 'Method Study' and 'Work Measurement'.
   d)   What are the basic principles of motion economy? Discuss these principles in relation to work area.
   e)   Discuss the ISO certification norms. In what way can it help an organization to improve their internal efficiency?
   f)   What are the different patterns of industrial ownership? Explain them with their advantages and disadvantages.
   g)   What is Acceptance Sampling? Describe the single, double and sequential sampling plan procedure.
   h)   Define the term Production Planning. State its objectives. What are the various steps involved in Production Planning and Control?

SECTION-C

Attempt any two questions: **(15X2=30)**

3   (a) Who is referred as the father of scientific management? What are the principles and goal of scientific management?

      (b) Explain the various types of inventory control techniques.

4   (a) What is a control chart? Discuss the types of control charts for 'variables' (Mean chart and Range chart).

      (b) What do you understand by 'Supply Chain Management'? Discuss the different components of supply chain?

5   (a) Describe the basic model of inventory control with its assumptions.

      (b) The annual demand for an item is 3200 parts. The unit cost is Rs. 6 and the inventory carrying charges are estimated as 25% per annum. If the cost of one procurement is Rs. 150, find: (i) Economic order quantity, (ii) Numbers of order per year, (iii) The optimal cost.