

**Code No: 126EX****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech III Year II Semester Examinations, May - 2016****INDUSTRIAL MANAGEMENT****(Common to MCT, AME, MIE)****Time: 3 hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART - A****(25 Marks)**

- 1.a) List out the functions of a good management. [2]
- b) What is Taylor's Scientific Management Theory? [3]
- c) What do you mean by virtual organization? [2]
- d) Describe the inverted pyramid structure. [3]
- e) Define value analysis. [2]
- f) What are the objectives of operations management? [3]
- g) What are the OC curves? [2]
- h) What do you understand by work sampling? [3]
- i) What do you understand by project crashing? [2]
- j) State the benefits of job evaluation. [3]

**PART - B****(50 Marks)**

- 2.a) What do you understand by Maslow's theory of human needs?
  - b) State and describe the various systems approaches to management. [5+5]
- OR**
- 3.a) Explain the scope of management in an entrepreneurship and organization.
  - b) State and describe the various leadership styles in management. [5+5]
- 4.a) What are the merits, demerits and suitability of lean and flat organization structures?
  - b) List and explain the various types of organization structures. [5+5]
- OR**
- 5.a) Explain the role of departmentation and decentralization in an organizational structure.
  - b) State and explain the working of a boundary less organization. [5+5]
- 6.a) State and explain the various phases of product design process.
  - b) State and describe the RPW method of line balancing. [5+5]
- OR**
- 7.a) Compare rural and urban areas in connection with selection of site for industry.
  - b) State and explain the various types of plant layouts. [5+5]

- 8.a) Differentiate between method study and work measurement.  
 b) In a factory producing spark plug the number of defectives found in inspection of 20 lots of 100 each, is given below:

Lot No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
No. of defectives	5	10	12	8	6	4	6	3	3	5	4	7	8	3	3	4	5	8	6	10

Construct appropriate control chart and state whether the process is in statistical control. [5+5]

**OR**

- 9.a) State and explain in brief the steps involved in method study procedure.  
 b) Differentiate between variable charts and attribute charts. [5+5]
- 10.a) Describe factor comparison method of job evaluation with its merits and demerits.  
 b) Table below gives the schedule of welding activities in an assembly shop.

Activity No.	0-1	1-2	0-3	2-5	3-4	4-5	5-6
Duration Days	2	4	2	1	2	5	3

- i) Draw the network diagram  
 ii) Calculate EST, LST, EFT, LFT and floats  
 iii) Mark the critical path and total project duration. [4+6]

**OR**

- 11.a) Enumerate the various steps involved in job evolution procedure.  
 b) Differentiate between CPM and PERT. [5+5]