Code No: 58019

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2015 PLANT LAYOUT AND MATERIAL HANDLING

(Common to ME, AME)

Time: 3 Hours

Max. Marks: 75

## Answer any Five Questions All Questions Carry Equal Marks

1.a) Explain systematic layout design procedure for scooter manufacturing.

b) What problems can be envisaged in case layout is not appropriate?

[8+7]

2.a) Compare design principles of process layout with product layout.

b) Describe fixed position layout with schematic diagram and list out its advantages.

[7+8]

- 3. Consider the following problem for demonstrating the algorithm ALDEP Basic data;
  - i) Number of departments in the layout = 6
  - ii) Areas of departments
  - iii) The Relationship Chart

Department	Function	Area (sq.meters) 24000		
1	Receiving			
2	Milling	12000		
3	Press	12000		
4	Assembly	16000		
5	Painting	12000		
6	Shipping	12000		
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