

Reg. No.....

K 2754

Name.....

**FOURTH SEMESTER M.A. DEGREE EXAMINATION, JUNE/JULY 2004**

Branch : Personnel Management

PM. 241—INDUSTRIAL ENGINEERING

Time : Three Hours

Maximum : 75 Marks

**Part I**

*Answer any five questions.  
Each question carries 6 marks.  
Answer should not exceed 300 words.*

1. Explain the concept of Industrial Engineering.
2. What are the purposes to increase productivity ?
3. What is the need for work study ?
4. Explain the concept of standard data.
5. Explain the objectives of Materials Management.
6. What is ABC analysis ?
7. What are the disadvantages of Network analysis ?
8. Discuss the importance of plant maintenance.

(5 × 6 = 30 marks)

**Part II**

*Answer any three questions.  
Each question carries 15 marks.  
Answer should not exceed 1,200 words.*

9. Explain the concept of productivity. How to increase the productivity of the following organisational resources :—
  - (a) Materials.
  - (b) Labour.
  - (c) Plant and Machineries.
  - (d) Land and Building.
  - (e) Money.
10. Explain the uses of Standard Data.
11. What are the functions and principles of materials handling ? Discuss the engineering and economic factors for analysing or solving material handling problem.
12. Explain the PERT technique. Also explain the steps consisting in PERT planning.
13. Explain the mechanical, environmental and personal factors responsible for industrial accidents.

(3 × 15 = 45 marks)