



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14/16, AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS**  
**SCHOOL OF MANAGEMENT SCIENCES**  
**SEPTEMBER/OCTOBER 2015 EXAMINATION**

**Course Code:** ENT420                      **Credit Unit:** 2  
**Course Title:** Production Management II  
**Time Allowed:** 2 Hours

**Instructions:**

- 1. Attempt question number one (1) and any other two (2).**
- 2. Question number 1 is compulsory and carries 30 marks while the other 2 carry 20 marks each.**
- 3. Present all your points in coherent and orderly manner.**

1. (a) Mention and discuss the principles of production facility layout. (12 marks)  
(b) What is group technology? (5 marks)  
(c) Highlight the main benefits of group technology. (9 marks)  
(d) Report communicates information to a specific reader in a completely unbiased manner. Why do we need reports? (4 marks)
2. (a) Relative to network analysis, explain the following terminologies:  
i) Event  
ii) Network  
iii) Activity  
iv) Free float  
v) Dummy activity (10 marks)  
  
(b) Highlight the features and main objectives of material management. (10 marks)
3. (a) Highlight the advantages of flexible manufacturing systems. (10 marks)  
(b) Discuss robotics relative to manufacturing technology. What are the drawbacks in the use of robots? (5 marks)  
(c) Define industrial research. (5 marks)
4. (a) What is quality? (3 marks)  
(b) Total Quality Management (TQM) has been subjected to a series of criticisms. Discuss. (14 marks)  
(c) Explain a critical problem usually associated with planning and controlling of production activities in Nigeria. (3 marks)
5. (a) Discuss 'inventory management', and discuss, at least, three types of inventory. (10 marks)  
(b) What is payment by results, and under what circumstances is it most relevant? (10 marks)