

**LAGOS CITY POLYTECHNIC, IKEJA**  
**SCHOOL OF MANAGEMENT AND BUSINESS STUDIES**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
**2013/2014 FIRST SEMESTER EXAMINATION**

<b>COURSE TITLE: PRODUCTION MANAGEMENT I</b>	<b>NO OF QUESTIONS : 4</b>
<b>COURSE CODE: BAM 315</b>	<b>TIME ALLOWED: 2 HRS</b>
<b>FOR WHOM: HND I BAM (FT)</b>	<b>INSTRUCTIONS:</b>
<b>ANSWER</b>	<b>ALL</b>

**QUESTION**

1. (a) Robotic control corporation uses a robotic controller flexible production system to assemble the robot it sells. Relevant information relating to the tasks is given below:

The corporation	work	8 hrs/day	5ND/role	output	980
Tasks	A B C D E F G H I				
Process			ABC A,D	D,E F,E	F,G
GH					
Tasks					time
Tasks					
(In minutes)	5	12	10	8	5 3 4 3 3

Required:

- (i) Draw the Network Diagram  
(ii) Use the wester and kilbridge model to balance the line assuming N = 4  
(iii) What is the cycle Time?  
(iv) Compute the Balance Delay
- (b) What are the basic assumptions of the simple lot size model?
2. (a) Define linear programming  
(b) Discuss the components of LPP  
(c) What are the assumptions of P?
3. (a) What is factory layout?  
(b) What are the characteristic of good factory layout?  
(c) Differentiate between forecasting and prediction.
4. (a) Explain the concept production forecasting  
(b) Discuss the necessary steps for production forecasting  
(c) From the following data, forecast the expected production quality of XYZ Ltd for the months of Dec. 2011 and Jan. 2012 using the simple average method.

Jan.	2012	=	2,000	units,
Feb	2012	=	3,000	units
March	2012	=	4,000	units
April	2012	=	5,000	units
May 2012		=	3,500 units	