LAGOS CITY POLYTECHNIC, IKEJA

SCHOOL OF MANAGEMENT AND BUSINESS STUDIES

DEPARTMENT OF BUSINESS ADMINISTRATION

2013/2014 FIRST SEMESTER EXAMINATION

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