



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF MANAGEMENT SCIENCES
JANUARY/FEBRUARY 2013 EXAMINATION**

COURSE CODE: MBA 801 CREDIT UNITS: 2
COURSE TITLE: PRODUCTION AND OPERATIONS MANAGEMENT
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 questions carry 20 marks each.**
3. Present all your points in coherent and orderly manner.

1. In a production system that uses the kanban card system, the manager is interested in knowing the number of kanban cards using the following information: The usage of a work centre is 300 parts per day, and a standard container holds 25 parts. It takes an average of 12 days for a container to complete a circuit from the time a kanban card is received until the container is returned empty. If the policy variable, X , set by the management takes the value of 20, what is the number of kanban cards needed?

(30 marks)

2. Identify the term being described for each of the following:

- (a) A sequence of activities in a project
- (b) The longest time sequence of activities in a project
- (c) Shortening of an activity by allocating additional resources
- (d) The difference between the time length of any path and the critical path

(20 marks)

3. Discuss in detail your understanding of process management. One of the very important functions of operations managers is in the consideration of five common process decisions. Enumerate, with brief discussions, these process decisions.

(20 marks)

4. List and discuss in detail the basic strategies open to an *aggregate planner*.

(20 marks)

5. What are the three *time horizons* in forecasting? Within the context of production management, what are the merits and demerits of each of the enumerated time horizon?

(20 marks)