FACULTY: Humanities, Social and Management Sciences
DEPARTMENT: Business Administration
FIRST SEMESTER EXAMINATIONS
2020/2021 ACADEMIC SESSION

COURSE CODE: BUS 409
COURSE TITLE: PRODUCTION MANAGEMENT
DURATION: $2\frac{1}{2}$ HOURS

HOD's SIGNATURE

INSTRUCTIONS:

1. Attempt any 4 questions.
2. All questions carry equal marks (15 marks)

QUESTIONS

Question 1.

a) Describe the four basic types of production processes. 10 marks
b) When should each be used? 5 marks

Question 2.

(a) Explain the term "Break-Even-Analysis" in process selection. 5 marks

(b) Adeoye and Selina formed a company to produce rubber soles. The initial investment in plant and equipment is estimated to be ₦2000. Labour and material cost is approximately ₦5 per sole. If the sole can be sold at ₦10 each, what volume of demand would be necessary to break even? 10 marks

Question 3

(a) Define product design. 2 marks

(b) Identify 5 objectives of supply chain management 5 marks

(c) What is facility layout? 2 marks

(d) Explain the term "Material Requirement Planning" (MRP) 3 marks

(e) What are the three fundamental strategies that guide the new product introduction? 3 marks

Question 4

(i) What is quality and what are its associated costs? 5 marks
(ii) Differentiate between specialization and diversification. 5 marks
(iii) Why do organizations embark on diversification? 5 marks

Question 5

(i) What do you understand by the term **Just-in-Time** (JIT) manufacturing in production and operations management? 2 marks
(ii) What is the purpose of JIT? 2 marks
(iii) Why are flexible resources essential to JIT? 5 marks
(iv) Outline three (3) objectives of supply chain management. 6 marks

Question 6

The following data gives the sales of Yomi & Selenari Nig Plc. between 1999 and 2007

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sales	13	20	20	28	30	32	33	38	43

(i) Formulate the equation of the straight line of the best fit.
(ii) Forecast the sales for the year 2025 using the least squares method. 15 marks