

NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI – ABUJA FACULTY OF MANAGEMENT SCIENCES DEPARTMENT OF BUSINESS ADMINISTRATION 2022_2 EXAMINATION

COURSE CODE: BUS406CREDIT UNIT: 3COURSE TITLE: ANALYSIS FOR BUSINESS DECISIONSTIME ALLOWED: 2 ½ HRSTIME ALLOWED: 2 ½ HRSINSTRUCTIONS:1. Attempt Question One (1) and any other three (3) questions2. Question 1 carries 25 marks, while the other questions carry 15 marks each.

2. Question 1 curries 25 marks, while the other questions curry 15 m

Contingency Matrix 1

3. Present all points in coherent and orderly manner

States of Nature	Alternatives		Probability
	Stock Rice (A ₁)	Stock Maize (A ₂)]
High demand (S_1) (\mathbb{N})	4,000	15,000	0.6
Low demand (S_2) (\mathbb{N})	7,000	-5,000	0.4

Compute the EMY for alternatives A₁ and A₂ and draw out optimal contingency strategy.

15Marks

1a.

1b. Discuss various classifications of inventories. 10Marks

2a. Outline six (6) Limitations of the EOQ Model. 6Marks

2b. Describe the phases in decision analysis. **9Marks**

3a. Discuss four (4) steps involves in decision theory approach. 8Marks

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7Marks

4. Customers arrive at a service facility to get required service. The interval and service times are constant and are 1.8minutes and minutes respectively. Simulate the system for 14minutes. Determine the average waiting time of a customer and the idle time of the service facility. **15Marks**

5a. Describe Monte Carlo Simulation and steps involved. **9Marks**

5b. Discuss assumptions of Linear Programming. **6Marks**

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