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## NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI – ABUJA FACULTY OF MANAGEMENT SCIENCES DEPARTMENT OF BUSINESS ADMINISTRATION 2021\_1 EXAMINATION ...

COURSE CODE: BUS406	<b>CREDIT UNIT: 3</b>
COURSE TITLE: ANALYSIS FOR BUSINESS DECISIONS	
TIME ALLOWED: 2 ½ HRS	
INSTRUCTIONS:	
<b>1.</b> Attempt Question One (1) and any other three (3) questions	
2. Question 1 carries 25 marks, while the other questions carry	15 marks each.
3 Present all points in apharant and ardarly mannar	

3. Present all points in coherent and orderly manner

1a.

Contingency Matrix 1

	Alternatives		
			Probability
States of Nature	Stock Rice	Stock Maize	
	$(A_1)$	(A <sub>2</sub> )	
High demand	4,000	15,000	0.6
$(\mathbf{S}_1)$ $(\mathbf{N})$			
Low demand	7,000	-5,000	0.4
$(S_2)$ $(\mathbb{N})$			

Compute the EMY for alternatives A<sub>1</sub> and A<sub>2</sub> and draw out optimal contingency strategy.

## 15Marks

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** 

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

3b. Briefly discuss the phases involved in the Scientific Method in Operations research.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**