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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES... DEPARTMENT OF ECONOMICS 2021\_1 EXAMINATION

**COURSE TITLE: OPERATIONS RESEARCH** 

**COURSE CODE: ECO 314** 

**UNITS: 3** 

TIME ALLOWED: 3 HOURS

INSTRUCTION: ATTEMPT QUESTION ONE (1) AND ANY OTHER THREE (3)

**QUESTIONS** 

<ul><li>1a. Explain the scope of operations research in financial management</li><li>1b. Explain briefly some areas of management where operations research technic</li></ul>	(4 marks)
successfully applied	(21 marks)
2a Trace the history and evolution of operation research	(9 marks)
2b. Explain the research phase of the scientific method of operations research	(6 marks)
3a. List five (5) different decision making criteria	(2.5 marks)
3b. Explain the five (5) different decision making criteria listed above (in 3a)	(12.5 marks)
4a. Differentiate between a model and modelling	(2.5 marks)
4b. Outline five characteristics of a good model.	(5 marks)
4c. Explain the classification of models by structure.	(7.5 marks)
5a. Describe transportation problem?	(2.5 marks)
5b. List and explain are the major assumptions in using transportation model?	(4.5 marks)
5c. Enumerate the steps in the use of the Vogel's Approximation Method (VAM)	(8 marks)