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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2022 2 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

1a. Explain the scope of operations research in financial management	(4 marks)
1b. Explain briefly some areas of management where operations research tech successfully applied	niques have been (21 marks)
2a Trace the history and evolution of operation research 2b. Explain the research phase of the scientific method of operations research	(9 marks) (6 marks)
3a. List five (5) different decision making criteria 3b. Explain the five (5) different decision making criteria listed above (in 3a)	(2.5 marks) (12.5 marks)
4a. Differentiate between a model and modelling4b. Outline five characteristics of a good model.4c. Explain the classification of models by structure.	(2.5 marks) (5 marks) (7.5 marks)
5a. Describe transportation problem?5b. List and explain are the major assumptions in using transportation model?5c. Enumerate the steps in the use of the Vogel's Approximation Method (VAM)	(2.5 marks) (4.5 marks) () (8 marks)