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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2021_2 EXAMINATION:55

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 evolution of operations research (8 marks)

- b. List eight (8) characteristics of operations research (8 marks)
- c. Highlight the judgment phase of the scientific method of operations research (9 marks)
- 2. Identify and discuss five (5) assignment problems known to you. (15 marks)
- 3a. Define business decision analysis. (2.5 marks)
- b. What are the phases of business decision analysis? (8 marks)
- c. What are the possible errors to guide against when making business decisions? (4.5 marks)
- 4. Write short notes on the following:
 - a. Conceptual System (3 marks)
 - b. Mechanical System (3 marks)
 - c. Social System (3 marks)
 - d. Deterministic System (3 marks)
 - e. Probabilistic System (3 marks)
- 5a. Define simulation. (3 marks)
- b. Explain six (6) limitations of simulation models (12 marks)