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NATIONAL OPENUNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI – ABUJA FACULTY OF MANAGEMENT SCIENCES DEPARTMENT OF FINANCIAL STUDIES 2020 1 EXAMINATION

COURSE CODE: MBF839 CREDIT UNIT: 3

COURSE TITLE: QUANTITATIVE TECHNIQUES FOR BANKING & FINANCE

TIME ALLOWED: 2^{1/2}HRS

INSTRUCTIONS:

- 1. 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 coherent and orderly manner
- 1a. Describe the objective functions and the constraint of Linear Programming. 15marks
- **1b**. A company sells x units of an item each day at the rate of N50 per unit. The cost of manufacturing and selling these units is N35 per unit plus a fixed daily overhead cost of N1000. Determine the profit function. **10marks**
- 2a. Discuss Net Present Value and how is it computed? 10marks
- **2b.** Calculate the present value of N1,000 receivable in seven year's time, assuming a 5% rate of interest. **5marks**
- **3a.** Explain annuity and how it works **5marks**
- **3b.** Explain the fundamental characteristics of ordinary shares and preference shares. **10marks**

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4a. Executives at all levels in business and industry make decisions at every course of daily activities. List and explain 5 advantages of the study of quantitative method for managers. **10marks**

b. if Mr. Richman deposits N100,000 in a bank account which pays interest at 60% compounded semi-annually, how much will he have at the end of 5 years?

5marks

5a. Discuss linkage between earnings per share and dividends per share? **10marks**

5b. In a firm of 1,250 employees, 575 are male. Find the percentage of female employees **5marks**

6a. A grocery store charges N100 for 5 packs of oranges. Assuming there is a no quantity discount, how much will be charged for 18 packs of oranges? **5marks**

6b. Discuss extensively the following features:

i. Face Value 2marks

ii. Interest Rate 2marks

iii. Maturity 2marks

iv. Redemption Value 2marks

v. Market Value 2marks.