

NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI – ABUJA FACULTY OF MANAGEMENT SCIENCES **DEPARTMENT OF FINANCIAL STUDIES 2019 EXAMINATION**

COURSE CODE: BFN403 CREDIT UNIT: 3 COURSE TITLE: CAPITAL MARKET AND PORTFOLIO THEORY 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

1. (a) Jelife Plc wishes to determine its historic beta coefficient in order to decide the cost of capital. Its financial manager has decided to use linear regression using a sample of 6 months data about the return on Jelife Plc ordinary shares and the market as a whole. The sample data (Monthly Return) for the first 6 months are given below:

Month	Market Index (%)	Wisdom's shares (%)	
1	+7	+4	
2	+5	+3	
3	-2	-5	
4	0	-3	
5	+1	+2	
6	+2	+4	

A dividend of 15k per share was paid by Jelife Plc in six months. The month-end price is shown as ex-dix.

Required to:

i. Use the data above to calculate a beta value for Jelife Plc.

ii. If the risk free rate of return is 8% per annum, calculate the required return on the shares of Jelife Plc. 5marks

1. (b) (i) Discuss any eight (8) limitations of CAPM. 8marks (ii) Explain briefly how Arbitrage Pricing Theory has solved such problems. 2 marks

10marks

2. (a) Explain Inflow and Outflow Transactions between nations	7marks
(b) Explain what you understand by "cumulative provision" and	"non-cumulative provision"
in the payment of dividends to preferred stockholders.	8marks

3. (a) Discuss any four (4) major types of risk to which a bond instrument is exposed. 8marks(b) Explain the meaning of "par value" and "market value" of common stock. 7marks

4. (a) Enumerate and explain five (5) types of Common Stock.	10marks
(b) Discuss sources of common stock value.	5marks

5. (a) Justine is considering allocating his portfolio funds to the following securities Security:

	Weight	Beta
А	15%	0.85
В	10%	1.30
С	20%	1.181
D	25%	1.25
Е	30%	0.70

If the risk free rate is 12% and the return on the market portfolio is 18%, calculate:

i. Portfolio Beta	6marks
ii. Expected Return on Jude's portfolio	4marks
(b) Explain what you understand by Event Risk?	5marks

6. (a) Given a security with an expected return of 9% and a market return of 12%. Also given that government security rate is 7%. Calculate the Beta factor. 10marks

(b) I	Discuss what you understand b	"current Income"	5marks
-------	-------------------------------	------------------	--------