

NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi – Abuja

FACULTY OF MANAGEMENT SCIENCES DEPARTMENT OF ADMINISTRATION 2020 1 EXAMINATION

COURSE CODE: BUS 406

COURSE TITLE: ANALYSIS FOR BUSINESS DECISIONS

CREDIT UNITS: 3

INSTRUCTION: 1. Indicate your Matriculation Number clearly

2. Attempt question one (1) and any other three (3) questions - four questions in all

3. Question one (1) is compulsory and carries 25marks, while the other questions carry

15marks each.

4. Present all your points in coherent and orderly Manner

TIME ALLOWED: 3Hrs

QUESTION ONE

(a) State the elements of a typical decision situation in Nigeria.

(b) The matrix below shows the payoffs of an investor who has the choice either investing in the production of HB pencils, BB Pencils or crayon. The market demand forecast for any of the product are as depicted in the payoff. Calculate and show which product should be produced using maximax model.

Alternative	Market demand		
products			
	high	moderate	low
HB Pencil	500	250	-75
BB Pencil	700	300	-60
Crayon	400	200	-50

25marks

QUESTION TWO

- (a) The process of analysing decision can be grouped into four phases. List and explain these four phases.

 8 marks
- (b) Since decisions are made by human beings, certain errors are bound to happen. The decision maker need to be aware of them and guide against their occurrence. Please discuss such possible errors in real life situations. 7 marks

QUESTION THREE

There are two broad objectives that decision makers can possibly set to achieve in. Explain them in detail.

15marks

QUESTION FOUR

Chief Adakole is considering where to invest his BetNiaja win. He has received suggestions from friends to invest in the projects represented in the table below, along with their relevant probabilities of success given by agric consultants, as, indicated in the pay-off table below:

Using EMV criterion, advise him as to the best project to embark on.

Decision to	States of nature		
invest			
	good	poor	turbulent
D1	50	30	15
D2	100	40	10
D3	30	10	-2
P	0.5	0.3	0.2

15marks

QUESTION FIVE

(a) Define Modelling, with special reference to Operations Research. 5 marks

(b) List and discuss the advantages of models.

10 marks.

QUESTION SIX

(a) What is Operations Research?

5 marks

(b) List and discuss the characteristics of Operations Research.

10 marks