



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION

SCHOOL OF EDUCATION

COURSE CODE: EDA 844

COURSE TITLE: STATISTICS FOR EDUCATIONAL MANAGERS

TIME ALLOWED: 2HRS 30MINUTES

INSTRUCTION: ANSWER QUESTION ONE AND ANY TWO OTHERS

Question 1

a. Estimate the population for a country X at the end of 2015, if:

Census population at the end of 2014	=	P_1	=	1,050,000
Live births in 2015	=	B	=	50,000
Deaths in 2015	=	D	=	12,000
Immigrants in 2015	=	I	=	23,000
Emigrants in 2015	=	E	=	25,000
10 marks				

b. It is assumed that students of National Open University of Nigeria have the following population in the stipulated age groups:

Age Group	Population
15 - 19	185,000
20 - 24	200,000
25 - 30	385,000
31 - 34	233,000
35 - 39	188,000
40 - 44	160,000

You are to smooth out the age group 25 - 30
15 marks

c. State the importance of age smoothing in educational planning
5 marks

Question 2

Calculate the manpower demanded by Springforth Secondary School in year 2021 if:

the summation of Springforth Secondary School manpower needs in year 2021 = 60,000

Projected Retirement = 5,000

Projected Deaths = 2,500

Formula: $M_r = L_{pt} - (R_{pt} + D_{pt})$, where $i = 1, 2, 3, 4, \dots, n$ 20MARKS

Question 3

a. What is non-schooling gap? (5 marks)

b. A primary school has a total enrolment of 530 pupils with an average class size of 35. The pupils sit two to a table with separate chairs. In the process of restructuring;

- How many chairs and tables would you plan for?
- How many classroom would be needed

(15 marks)

Question 4

Assuming Lagos State has Six Local Government Council Areas named A, B, C, D, E, & F with projected average Primary School enrolment in year 2020 to be: A = 2000, B = 1600, C = 1450, D = 1350, E = 1200 and F = 900.

Project the total cost the State will spend in educating primary school pupils among the Local Government Council Areas if the unit cost per pupil is ₦1,500.00 20MARKS