



National Open University of Nigeria
Plot 91, Cadastral Zone, NnamdiAzikiwe Express Way, Jabi-Abuja

Faculty of Education
October/November Examination 2016

Course Code: EDA 844
Course Title: Educational Statistics for Education Managers
Credit Unit: 2
Time Allowed: 2hrs 30mins

Instruction: Answer Question **one (1)** and **two (2)** others.

- 1a. It is assumed that Lagos State has 1,515,200 pupils in Primary 1 in the state public schools in 2015. Of these 122,567 are known to be repeating the class. The number of children that are legally entitled to gain admission to Primary 1 (age 6) is 884,316; calculate the gross in-take rate for the state. State the formula before calculation. (8 marks)
- 1b. Explain the implications of gross rate to educational planners and administrators. (6 marks)
- 1c. With the result obtained in 1a, analyse the admission made into Primary 1 in the state. (8 marks)
- 1d. Hypothetically, Lagos State has 456,300 six-year olds and 687,134 seven-year olds in Primary 1 in the public primary schools. Of these 18% six-year olds and 14% seven-year olds are known to be repeating the class. If the total number of six-year and seven-year old children in the population is 885,323 and 788,400 respectively. State the formula and calculate the respective age-specific in-take rates for six-year old and seven-year old children. (8 marks)

2. Table 1: Evolution of Secondary Enrolment in Agogo State (2006 - 2016)

Year	No of Teachers	Change	Growth Rate
2006	1,009		
2007	1,020		
2008	1,004		
2009	1030		
2010	1039		
2011	1040		
2012	1045		
2013	1100		
2014	1107		
2015	1120		
2016	1160		

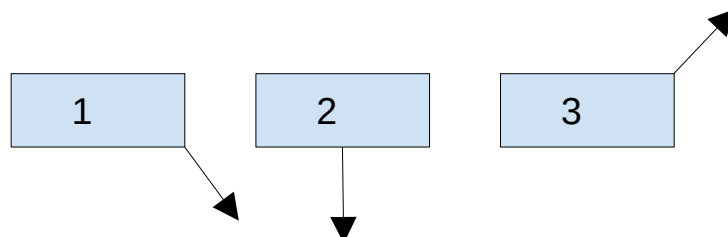
To complete Table 1, calculate the change and the growth rate.

20 marks

3. As an expert in educational administration and planning, you were invited by a state governor to advise on the number of teachers that should be employed in the state public secondary schools. The purpose is to provide quality education.

- State the data you would require 3 marks
- Explain how the use of student-teacher ratio and full-time equivalent required would guide your decision. 10 marks
- Explain the quality implications of each method. 7 marks

4. a. Interpret the following notations as used when determining student flow Rate.



3 marks

- b. State the purpose of determining wastage ratio by educational administrator or planner. 2 marks
- c. Three students - Ada, Okoro and Udi were given data to calculate the wastage ratio of a school. The wastage ratio values presented by the students were 1.7, -1.80 and 1.0 respectively.

As an expert in educational administration and planning, explain the implications of these values.

15 marks