

## NATIONAL OPEN UNIVERISTY OF NIGERIA

91Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF EDUCATION

FEBRUARY/MARCH EXAMINATION 2018

<b>COURSE CODE:</b>	EDU821
<b>COURSE TITLE:</b>	STATISTICAL METHODS
<b>CREDIT UNIT:</b>	3
TIME ALLOWED:	3 HOURS
<b>INSTRUCTION:</b>	Answer question ONE and any other THREE

1.(a) The average scores of Masters' Education students in EDU821 for five years are as follows:

Year	2012	2013	2014	2015	2016		
Score	60	38					
Use pie chart to marks)	(6						

(b)(i) List the three commonest type of central tendency (3 marks)

(ii) Enumerate FOUR key steps you would follow to draw a frequency distribution table (4 marks)

(c)(i) The mean age and median of ODL students in research methods class were 60 and 58 respectively. If the standard deviation is 7.5, what is the coefficient of skewness of the students' age? (6 marks)

(ii) Calculate the modal weights from

Weights	40-49	50-59	60-69	70-79	80-89	90-99	100-109				
Frequency	9	2	22	30	17	4	16				
							(6				
marks)											
2 (a)(i) State any EIVE notionals for studying statistics as a tapphon											
2.(a)(i) State any FIVE rationale for studying statistics as a teacher marks)											
(ii) Describe THREE types of statistics you know.											
marks)											
(b) If $A = 1$ , 2, 4, 6, 10, and $D = 2$ , 4, 6, 8, 10. What is the value of $\sum A \sum D(\sum A + \sum D)$											

(b) If A= 1, 3, 4, 6, 10 and B = 2, 4, 6, 8, 10. What is the value of  $\Sigma A \Sigma B (\Sigma A + \Sigma B)$  (4 marks)

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2(z)	TT' .1		10 0 7 (		1				
3.(a)	Using these (i)	e set of scores Sum of so		3, 2, 1. Co	mpute the		(2		
marks							(-		
	(ii)	Sum of so	quared scores	3			(2		
	marks) (iii) the standard deviation (imarks)								
(b)	/	te between (i	) Freque	ncy polygon a	and Ogive	(ii)	Measures of		
		asures of Agi	-			()			
F	(6 marks)								
	· · · ·								
4(a)	Find the (i)	) mean deviat	ion and (ii) s	tandard devia	tion of the fol	lowing set	of data:		
	10, 20, 8, 5	5. 15. 12					(6		
marks		,,					(0		
	- /								
4(b)	(i) Me	ntion FIVE v	alues to be as	ssigned to var	riables that ma	ay be corre	lated. (5		
marks	s)								
	(ii) Dis	tinguich botu	yaan Snaarma	n Brown Don	k Order corre	lation and	Point Biserial		
	. ,	relation	een spearna	III-DIOWII Kaii		lation and	(4		
	mai						(+		
	ma	(K5)							
5.(a)	The table b	elow shows t	he marks sco	red by a grou	p of 800 level	NOUN st	udents		
	Mark	0	1	2	3	4	5		
Fr	requency	1	4	9	8	5	3		

(ii) Find the median (4 marks)
(iii) If the information were to be represented in a pie chart, what would be the sectorial and for the marks 2 and 5. (4marks)

5.(b) Give one similarity and one dissimilarity between Stanine and T scores. (4 marks)

6.(a) The scores of ODL students in EDU823 and EDU820 were as contained in the table

EDU823	5	3	4	6	5.5	7	7.5	9	8	8.5
EDU820	3	5	4	4.5	6.5	6.5	7	7.5	8.5	6
(i)	(i) Find the rank corre, lation coefficient (8 marks)								ks)	
(ii)	Interpret you result in (i)								(1 mar	k)

6(b) What is measurement? Distinguish among the four data scales of measurement. (6 marks)