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## NATIONAL OPEN UNIVERISTY OF NIGERIA

## 91Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF EDUCATION FEBRUARY/MARCH EXAMINATION 2018 <br> INSTRUCTION: Answer question ONE and any other THREE <br> COURSE CODE: <br> COURSE TITLE: <br> CREDIT UNIT: <br> TIME ALLOWED:

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 | 39 | 41 | 46 | 38 |

Use pie chart to represent the data.
marks)
(b)(i) List the three commonest type of central tendency 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 |

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

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3.(a) Using these set of scores: $10,8,7,6,3,2,1$. Compute the
(i) Sum of scores
marks)
(ii) Sum of squared scores
marks)
(iii) the standard deviation
marks)
(b) Differentiate between (i) Frequency polygon and Ogive (ii) Measures of dispersion and Measures of Agreement.
(6 marks)
4(a) Find the (i) mean deviation and (ii) standard deviation of the following set of data:
$10,20,8,5,15,12$
marks)
4(b) (i) Mention FIVE values to be assigned to variables that may be correlated. marks)
(ii) Distinguish between Spearman-Brown Rank Order correlation and Point Biserial correlation marks)
5.(a) The table below shows the marks scored by a group of 800 level NOUN students

| Mark | 0 | 1 | 2 | 3 | 4 | 5 |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| Frequency | 1 | 4 | 9 | 8 | 5 | 3 |

(i) Calculate the mean
(3 marks)
(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) Find the rank corre,lation coefficient
(ii) Interpret you result in (i)
(8 marks)
(1 mark)
6(b) What is measurement? Distinguish among the four data scales of measurement. (6 marks)

