



ZIMBABWE EZEKIEL GUTI UNIVERSITY

DEPARTMENT OF EDUCATIONAL FOUNDATIONS

PROGRAMME: BED (HONS)

COURSE: RESEARCH METHODS AND STATISTICS

COURSE CODE: EPR 201

DATE: **21 JUNE 2017**

DURATION: 3 HOURS

INSTRUCTION TO CANDIDATES

1. Answer any **THREE** questions and not more than **TWO** questions from each section.

SECTION A

1. Analyse the relevance of a pilot study in educational research. [25]
2. Compare and contrast quantitative and qualitative research paradigms [25]
3. With the aid of practical examples, examine any five factors which researchers should consider when selecting a research topic. [25]

SECTION B

4. a) Using the Pearson Product Moment Correlation coefficient, find out the degree of association between the Maths and Science scores. [23]

| STUDENT | MATHS | SCIENCE |
|---------|-------|---------|
| 1 | 8 | 7 |
| 2 | 9 | 8 |
| 3 | 6 | 9 |
| 4 | 7 | 8 |
| 5 | 5 | 9 |

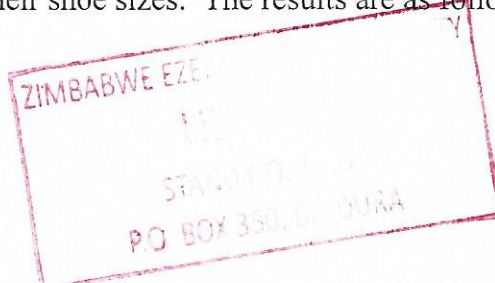
- b) Interpret the degree of association between performance in Maths and Science.

[2]

5. a) Ten students were asked their shoe sizes. The results are as follows:
8; 6; 7; 6; 5; 4; 5; 7; 5; & 6;

For this data find the

- i. Mean
- ii. Mode
- iii. Median



[6]

- b) For the following data distribution: 6; 7; 10; 11; 13; 16; 18; & 25 find

- i. The variance
- ii. Standard deviation
- iii. Z-scores for: 7; 10; 11 & 18

6. a) Calculate Spearman's rank order correlation coefficient on students' performance in Reading and Maths. [23]

| | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|
| Reading | 75 | 73 | 72 | 70 | 69 | 68 | 66 | 65 | 63 |
| Maths | 70 | 73 | 71 | 58 | 68 | 75 | 64 | 60 | 65 |

- b) Interpret the degree of relationship between performance in Reading and Maths. [2]

END OF PAPER