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KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2024/2025 ACADEMIC YEAR
THIRD YEAR, SEMESTER ONE & TWO EXAMINATION
BACHELOR OF EDUCATION (ARTS)
KEF 2302: RESEARCH METHODS IN EDUCATION

Date: 13th December 2024

Time: 11.30am-1.30pm

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) "A research is an inquiry which aims at finding the truth" comment. (4 marks).
- b) "If a research does not challenge the known and held truism, it is not relevant" Evaluate. (5 marks).
- c) Outline the significance of statistics in research work. (3 marks).
- d) "Ethnographic approach in research yields better research data compared to other positivist research approaches". Respond. (5 marks).
- e) What is the place of piloting in any research work? (3 marks).
- f) Differentiate between target population and sample size. (4 marks).
- g) "Citations are very critical to any research work". Explain. (6 marks).

QUESTION TWO (20 MARKS)

In seeking to document student's perceptions on the new government funding model, a team of researchers from the Ministry of Education embarked on a research targeting University students within Kiambu County. Their target was all the universities within Kiambu County. Their target population was 20,000 students, and they settled for a sample size of 1000 students. In seeking an appropriate sampling procedure and in considering the diversities evident in the universities they settled for stratified sampling procedure. Using this brief information availed answer the following questions:

- a) What is stratified sampling? (2 marks).
- b) Using a table point out **four** strata that the team of researchers would use. (4 marks).
- c) calculate:
 - i. The sampling fraction. Remember to indicate the formula. (4 marks).
 - ii. Using your sampling fraction in (i) and your generated table in (b) above, calculate the proportional sample for each strata. (8 marks).
- d) Suggest an appropriate topic to this study. (2 marks).

QUESTION THREE (20 MARKS)

Kindiki in seeking to solidify his literature review for his Master of Arts (MA) work, read the following books.

| Editor (s) | Author (s) | Title of the book/ Title of the chapter | Year of publication | Publisher | City |
|------------------------------|---------------------|--|---------------------|---|----------|
| | Kivue, John Waringo | Religion and politics in Africa: theological Perspectives | 2019 | Oxford Press | Nairobi |
| Justus Mile & Joseph Onyango | Irene Mumbua Muteti | Title of the book: Mathematics simplified Title of the chapter: Simplified calculus | 2020 | Amani Press | Tanzania |
| | Anderson Andrew | The newer Pentecostal and charismatic churches: The shape of future Christianity in Africa. | 24(2), 167-184. | PNEUMa, <i>The Journal of Society for Pentecostal Studies</i> | |

Using the list of books provided answer the following questions:

- a) Express **three** ways which Kindiki can use the above works in in-text citation. (6 marks).
- b) Using the provided list of books prepare a reference list of all the books in:
 - i. APA referencing style. (6 marks).
 - ii. Chicago referencing style. (6 marks).
- c) Define sampling error. (2 marks).

QUESTION FOUR (20 MARKS)

- a) Examine the purpose of literature review in any research work. (10 marks).
- b) A good literature review must fill some knowledge gaps. By use of imaginary authors, write two paragraphs expressing how to fill knowledge gaps. (10 marks).

QUESTION FIVE (20 MARKS)

Carol Mugure undertook a research in seeking to understand the effect of climate change on coffee farming in Kiharu constituency. She utilized questionnaires, interviews and participant observation. Her research employed both qualitative and quantitative measures. Her sample size was 215 respondents comprising coffee farmers, agricultural officers and community leaders. Out of the 215 respondents, 187 responded to the study and gave important information regarding the topic of study. Using this information answer the following questions:

- a) Calculate the response rate and comment on the level of representation. (4 marks).
- b) Draw a table indicating **four** aspects of climate change effects on coffee farming in putting the element, frequency and percentage. Remember the response rate was 187. (8 marks).
- c) Write one paragraph of data analysis explaining the information in b above. (8 marks).