

INSTITUTE FOR TEACHER EDUCATION AND CONTINUING PROFESSIONAL DEVELOPMENT (ITECPD)



END-OF-SECOND SEMESTER EXAMINATIONS, NOVEMBER, 2023

LEVEL 400

COURSE CODE: JBA 482

COURSE TITLE: AGRICULTURE PROJECT

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- The Section is made up of five essay type questions.
- Answer any THREE questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.

Instruction: Answer any three (3) questions in the answer booklet provided.

- List any five (5) sub-headings that must be included in the "Introduction"
 of a typical project work. (5 marks)
 - b. Give two (2) examples of how you can construct an in-text citation with the following reference and extract (5 marks)
 - Essilfie, G. L., Lamptey, S., Baddoo, R. N., Amenorpe, G., Hevi, W., Owusu, M., & Atupra, F. (2023). Food safety in the horticultural sector in Ghana: Challenges, risk factors and interventions. Frontiers in Sustainable Food Systems, 7, 1173677. https://doi.org/10.3389/fsufs.2023.1173677

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"The study revealed that enteric pathogens such as Escherichia coli and Salmonella spp. mainly contaminate produce through fresh manure and contaminated irrigation water used during the production of vegetables".

- c. Examine any four (4) ways that make educational action research relevant (10 marks)
- 2. Comfort, a maize farmer wants to evaluate the best maize variety in her seed bank using Randomized Complete Block Design (RCBD) with 4 blocks. The seeds are; A-var 1, B-var 2, C-var 3.
 - a. List the sources of variation for the experimental design used apart from the total error. (3 marks)
 - b. When does type I error occur? (2 marks)
 - c. Suggest a null and an alternative hypothesis for this experiment (4 marks)
 - d. How many experimental units are expected for this experiment? (2 marks)
 - e. Briefly explain why the farmer used RCBD and not CRD. (4 marks)
 - f. Draw a possible layout of the experiment (5 marks)
- 3. a. State and explain any four (4) steps or guidelines used to write a good problem statement (8 marks)
 - b. Explain how the following concepts below relate to educational action research

i. Reflective practice	8 6	(2 marks)
ii. Participatory approach		(2 marks)
iii. Collaborative Inquiry		(2marks)
iv. Cyclical Process	Al-Same	(2 marks)
rentiate between "Sampling" and "Sample"		(4 marks)

c. Differentiate between "Sampling" and "Sample" (4 marks)

- 4. State any four (4) characteristics of a good research problem (4 marks)
 - b. Describe three (3) ways a researcher can search for primary and secondary data sources. (6 marks)

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- c. State and explain any five (5) key components of chapter four of a typical project work (10 marks)
- i. State four (4) major types of non-probability sampling (2 marks)
 ii. State the sources of variation for Completely Randomized Design (3 marks)
 - Literature review plays an important function in the research process. State and explain any five (5) importance of literature review (10 marks)
 - Explain the following underlisted types of analysis in the chapter four of a project work

i. Descriptive Analysis

(2.5 marks)

ii. Inferential Analysis

(2.5 marks)

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