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Name of the Program: PhD in TE
Semester: Summer

Date: 04 May (Thursday), 2023

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION

Semester Final Examination
Course Number: TVE 6253
Course Title: Qualitative Research and Data Analysis

Summer Semester: 2021 - 2022
Time: 3.00 Hours
Full Marks: 150

There are 7 (Seven) questions. Answer **any 6 (six)** questions. The symbols have their usual meaning.

1. a) Differentiate between qualitative and quantitative research considering the following relative characteristics: (12) CO1
 - i. Inductive or deductive reasoning
 - ii. Top-down or bottom-up approach, and
 - iii. Emic or etic perspectives.
- b) "Qualitative researchers are relativist, and the quantitative researchers are realist". Do you agree with this statement? Justify your answer in relation to ontological and epistemological position of each research paradigm. (13) CO2
2. a) Describe the characteristics of the following five major qualitative research approaches: (15) CO2
 - i. Narrative research
 - ii. Phenomenography
 - iii. Grounded theory
 - iv. Ethnography, and
 - v. Case study.
- b) How do you maintain the following principles of ethical conduct during qualitative research? Explain the following with appropriate examples: (10) CO3
 - i. Dealing with confidentiality
 - ii. Dealing with anonymity
 - iii. Dealing with inappropriate relationship
 - iv. Dealing with informed consent, and
 - v. Dealing with privacy.
3. a) What does 'data' mean in qualitative research? Compare their strengths and limitations over quantitative data. (10) CO4
- b) Explain the thematic data analysis process for qualitative data. Also explain how you justify that the following conditions which are met through your analysis: (15) CO4
 - i. Ensuring reliability and validity in the data analysis and in the findings
 - ii. Checking for researcher effect, and
 - iii. Confirming findings.
4. a) Define the theoretical assumptions (ontology and epistemology) underpinning Ethnographic research. (10) CO2
- b) Describe, with a schematic diagram, the point of departure of a phenomenographic research in relation to other research approaches based on Philosophy, Method, and Outcome. (15) CO2

5. a) Describe the following five types of questions that are used in an *interview* as a qualitative data collection instrument. (10) CO3
- i. Ground tour
 - ii. Concrete questions
 - iii. Comparison/contrast
 - iv. New elements/topics, and
 - v. Closing.

- b) Describe with examples, how do you maintain the following strategies in a qualitative *interview*. (15) CO4

<i>Strategies to be followed</i>	<i>Elaboration, probing, using stimuli, neutrality, single question, wait time, special areas of concerns</i>
<i>Strategies to be avoided</i>	<i>Leading questions, complex question, double-barreled questions, chattiness</i>

6. a) Define *observation* as a data collection tool in qualitative research. When should you use *observation* and how do you plan for *observation*? (12) CO3

- b) When should you use a *focus group discussion* as a data collection technique for your research? What are the advantages and limitations of a *focus group discussion* technique over others techniques commonly used in qualitative research? (13) CO3

7. a) Suppose you are going to conduct an individual interview for your qualitative research. How do you prepare yourself considering the following aspects? - i) prior to an interview, ii) During the interview and iii) after the interview. (12) CO3

- b) Write examples of the following expressions/symbols that you may have encountered during the interview: (13) CO4

- i. *Write exactly what they say, even if it is grammatically incorrect or doesn't make much sense.*
- ii. *Include interjections like "hmm", "uh", "woah", "yeah", "okay", "um", "ohh", "mmm"*
- iii. *Include nonverbal communication (e.g., laugh, sigh, quietly) in brackets. These should be in present tense.*
- iv. *Change identifying information*
- v. *Numbers less than ten*
- vi. *Comma (,)*
- vii. *Ellipses (...)*
- viii. *(Pauses)*
- ix. *Em dash (-)*
- x. *Underline (_)*
- xi. *Brackets []*
- xii. *Slashes (/)*
- xiii. *Quotes (" ")*