University of Mohamed Khider -Biskra-
Faculty of Architecture, Civil Engineering, Hydraulics Department of Architecture

Module: Data Analysis **Academic Year: 2025/2026**
Level: Master 02 **Duration: 2h**

Model Answers 1st Semester Exam

Activity One: Define the following terms: (2 points)

Data Analysis is a range of specific **procedures, specialized techniques and methods** that **convert the collected data to meaningful information** in order to draw conclusion about that information. (1pt)

Fieldwork is the process of **collecting raw data** or information **directly from the environment** or context relevant to a study, research project, or practical application. (1pt)

Activity two: Select the correct answer for each question from the options provided. (5 points) (each question = 0.5 points).

1. Which of the following is an example of primary data?
A. Census reports
B. Academic journal articles
C. In-situ observations conducted by the researcher X

2.Which software is specifically designed for analyzing qualitative data like interview transcripts and open-ended survey responses?

A. Microsoft Excel.
B. SPSS.
C. NVivo X

3. In the SPSS interface, which tab is used specifically to define and edit the properties of variables?,,

A. Data View
B. Variable View X
C. Output Viewer

4.Which type of questionnaire question allows respondents to explain in their own words?

A. Yes/No

B. Ranking

C. Open-ended question X

5. Which interview type follows a fixed list of questions only?

A. Structured interview X

B. Semi-structured interview

C. Unstructured interview

6.Which of the following digital tools is used for observation and field data collection?

A. Google Forms

B. KoboToolbox X

C. SurveyMonkey

7. Which of the following is an example of qualitative data?

A. The wall is 3 meters high

B. The project took 12 months to complete

C. Workers reported the process as "easy but time-consuming." X

8.Which data collection method is described as combining elements of both interviewing and observation?

A. Structured Interview.

B. Focus Group Discussion (FGD) X

C. Case Study.

9. Which factor should a researcher consider MOST when selecting a data collection tool?

A. The color of the survey form

B. The availability of software

C. The research objectives and type of data required X

10.In a spreadsheet, the data is organized in:

A. Folders and files

B. Rows and columns X

C. Pages and paragraphs

Activity three: Indicate whether each statement is true or false. (4 points)

1-Quantitative data is based on numerical values and measurable variables. (…**True**……) (1pt)

2-NVivo is primarily used for the quantitative analysis of complex numeric data.(**False** .) (1pt)

3-Primary data collection is usually less time-consuming and cheaper than secondary data collection. (…**False**…..) (1pt)

4-Data reporting should be complex and technical to ensure accuracy. (…**False**……) (1pt)

Activity four: Arrange the steps in designing a questionnaire in the correct order (1 = first, 5 = last). (2.5 points)

A. Develop questionnaire items [3]
B. Identify the target population [2]
C. Define research objectives [1]
D. Pilot testing [4]
E. Revise the questionnaire [5]

Activity five: Match each item in Column A with the correct description in Column B. (2 points) (each correct match = 0.5 point).

Column A	Column B
1. Primary Data	a. Recording behaviors and events as they happen naturally
2.Data Reporting	b. A guided discussion with a small group of participants
3. Focus Group	c. Data collected directly by the researcher for a study
4. Observation	D.Process of presenting collected and analyzed information in a structured way to communicate findings

Activity six: State two key differences between primary data and secondary data. Then provide one example of each type. (3 points)

Primary data collection methods	Secondary data collection methods
1- Collected directly from original sources by the researcher (0.5pt) 2- time-consuming and expensive (0.5pt) …….. (others, see chapter 02) **Example**: Conducting **interviews** with project managers, ……(0.5pt)	1- Already collected and recorded by others(0.5pt) 2-quicker and less costly(0.5pt) …….. (others, see chapter 02) **Example**: Analyzing historical project performance data, **……**(0.5pt)

Activity seven: List the three main phases of fieldwork (Without explanation). (1.5 points)

1 **-Planning** ……(0.5pt)
2- **Execution** ……(0.5pt)
3 - **Analysis**……..(0.5pt)

Good Luck !