Unit 3 - Week 2: Data Collection

Assignment 2

The due date for submitting this assignment is 2019-08-31 11:59 PM. You may submit multiple times before this date.

Week Assignment 2

1. The range when raw data is converted into class intervals is called:
   - Data processing
   - Data preprocessing
   - Data reporting
   - None, the answer is incorrect.
   [Optional Feedback: Class intervals can be defined as ranges of data that are used to group data. The range is the difference between the maximum and minimum values in the data set.]

2. Which of the following sensors can be used for educational data collectors?
   - Survey questionnaires
   - Click-behavior
   - Skills assessment (SAS)
   - Eye tracker
   - None, the answer is incorrect.
   [Optional Feedback: Educational data collectors often use a variety of tools to gather data, including surveys, click-behavior sensors, and eye trackers.]

3. Which of the below is true for Multi-Modal data analysis?
   - No easy way to get consent from the participants to collect data using multiple sensors
   - Aligning data from multiple channels is difficult due to the difference in the granularity of data collected
   - Anisotropic analysis from data is not available
   - All of the above
   - None, the answer is incorrect.
   [Optional Feedback: Multi-modal data analysis can be challenging due to the differences in the granularity of data collected from various sensors.]

4. Before conducting studies with participants, what of the following information has to be provided to participants?
   - What data is collected
   - Why and how it is collected
   - How the data is stored
   - If it is used
   - A & B, i.e. it is optional
   - A, B, & C, i.e. it is optional
   - None of the above
   - No, the answer is incorrect.
   [Optional Feedback: Consent is a crucial aspect of research with participants, requiring explicit information about data collection and usage.]

5. You are conducting a study using MIEDEA environment in a laboratory. You plan to collect both video and audio data for your analysis. You have given a consent form to all students, asking permission to collect data. One of the MIEDEA 10 students has given permission to collect their audio and video data. Which of the following options is the ethical option to consider?
   - Do not analyze any participant’s audio or video data, since none have not given consent
   - Analyse everyone’s audio and video data, but report only for students who have given consent
   - Collect, analyse and report audio and video data of 10 students who have given consent
   - Do not collect data of 20 students who have not given consent
   - None of the above
   - No, the answer is incorrect.
   [Optional Feedback: Ethical considerations in data collection require respect for individual consent.]

6. In an MIEDEA course, if you collect data such as time, status, progress, video, audio, and learner interaction in the future, all of the above will be:
   - Privacy only
   - Students only
   - Students and student
   - None of the above
   - No, the answer is incorrect.
   [Optional Feedback: Privacy is a significant concern in educational data collection, requiring appropriate handling of personal data.]

7. You are conducting a research study for Class 10 students. You are not collecting and storing any data from students. You should get consent from:
   - Parents only
   - Students and student
   - None of the above
   - No, the answer is incorrect.
   [Optional Feedback: Consent is a critical process in research involving minors, requiring parental involvement.]