A GRADE 11 – CCDI | CHAPTER 3: DATA AND ANALYSIS

WORKSHEET 1 – Group Activity: Data Detectives in the UAE

Recognise key words and identify simple examples

Name: _____ **Class:** _____ **Date:** _____

Name: _____ **Class:** _____ **Date:** _____

Name: _____ **Class:** _____ **Date:** _____

Name: _____ **Class:** _____ **Date:** _____

Scenario: A school in Abu Dhabi wants to collect information about students' learning habits and favourite school activities to improve education.

Q1. MCQ: The school asks 100 students to select their favourite subject. What type of data will the school collect from the number of votes?

A. Qualitative data
B. Quantitative data
C. Unstructured data
D. Secondary data

Q2. MCQ: A teacher asks students, "Why do you enjoy learning AI?" Which type of data will the teacher collect?

A. Quantitative data
B. Structured data
C. Qualitative data
D. Big data

Q3. MCQ: A student uses an existing UAE Ministry of Education report to study school performance. This is an example of:

A. Primary data
B. Secondary data
C. Data augmentation
D. Data generation

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Q4. MCQ: A school wants to know students' opinions about online learning. Which method is most suitable?

A. Survey
B. OCR
C. Web scraping
D. Automatic data gathering

Q5. Matching: Match the data type with the correct UAE-based example.

Column A	Column B
1. Structured data	A. A video of UAE National Day celebrations
2. Unstructured data	B. Student marks organised in a table
3. Semi-structured data	C. A survey with multiple-choice answers and written comments

Answers: 1. ____ 2. ____ 3. ____

Q6. Matching: Match the data collection method with its purpose.

Column A	Column B
1. Survey	A. Watching students' classroom behaviour
2. Interview	B. Asking students to complete questions
3. Observation	C. Asking students questions directly

Answers: 1. ____ 2. ____ 3. ____

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WORKSHEET 2 – Group Activity: Data Detectives in the UAE

Recognise key words and identify simple examples

Name: _____ **Class:** _____ **Date:** _____

Name: _____ **Class:** _____ **Date:** _____

Name: _____ **Class:** _____ **Date:** _____

Name: _____ **Class:** _____ **Date:** _____

Scenario: The UAE is developing smart AI-based services. Your group is working as an AI development team. You must select suitable data collection methods and techniques for different projects.

Q1. MCQ: Dubai is developing an AI system to recognise vehicle number plates from traffic camera images. Which technique would help extract text from these images?

A. Crowdsourcing
B. OCR
C. Interview
D. Data acquisition

Q2. MCQ: An Abu Dhabi school is developing an AI learning system, but it has only a small number of student learning images. The team modifies existing images to increase the dataset. Which method is used?

A. Data acquisition
B. Data augmentation
C. Web scraping
D. Secondary data

Q3. MCQ: A UAE research team wants to collect information from thousands of public web pages about tourism trends. Which technique is most suitable?

A. Interview
B. OCR
C. Web scraping
D. Observation

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Q4. MCQ: A UAE government application needs to exchange information with another software system through a defined interface. Which technique should developers use?

A. API
B. IDP
C. Survey
D. Data generation

Q5. Matching: Match each AI data collection method with the correct UAE-based situation.

Column A	Column B
1. Crowdsourcing	A. A UAE AI team modifies existing images to increase its dataset
2. Data acquisition	B. Collecting traffic information automatically using sensors
3. Data augmentation	C. Obtaining an existing reference dataset from an online repository
4. Automatic data gathering	D. Asking a large group of UAE residents to label images of local landmarks

Answers: 1. ____ 2. ____ 3. ____ 4. ____

Q6. Matching: Match the AI data collection technique with its purpose.

Column A	Column B
1. API	A. Processes information from documents intelligently
2. OCR	B. Allows different software systems to communicate
3. IDP	C. Extracts text from scanned documents and images
4. Web scraping	D. Collects information from websites

Answers: 1. ____ 2. ____ 3. ____ 4. ____

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