

Applied Information Technology

Unit 3A

Data Handling

Name: _____

Multiple Choice Questions – Circle the letter of the correct answer (1 mark each)

1. Data is

- A. Something with meaning
- B. Information
- C. A full sentence
- D. Something with no meaning

2. Information is

- A. Data + meaning + context
- B. Data + structure + context
- C. Data + structure + meaning + context
- D. Data + meaning + structure

3. If information is based on facts, then knowledge is based on

- A. Rules
- B. Certainty
- C. Probability
- D. Knowing

4. Which of the following would not be used in the testing of data

- A. Normal data
- B. A complete set of data
- C. Extreme data
- D. Erroneous data

5. Syntactic is concerned with the

- A. Happening
- B. Meaning
- C. Rules
- D. Methods

Short Answer Questions (2 marks each)

6. Explain the difference between data and information using the example of telephone numbers.

7. Give four different examples of data that may be stored on your computer

8. Explain the binary system and why is it important to a computer

9. What is a “bit” or “binary digit”?

10. Explain why a series of eight bits, or a byte can represent 256 colours or characters on a keyboard.

11. Why was the American Standard Code for Information Exchange established?

12. Why should the source of all data be recorded?

13. Explain the difference between bitmap graphic files and vector graphic files.

14. Explain the difference between Serial and Parallel transmission and give one example of each.

15. Why do computers need both primary and secondary storage?

Extended Answer Questions (10 marks each)

16. You have found a website on the internet which allows you to download lots of popular music. You have a DVD burner on your computer. Discuss the ethics of storing music on your hard drive, burning it to a DVD, and then copying it to sell to your friends.

[illegible]

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