Intro to IT- D322

**Knowledge Checks**

Section 2.3

1. Which statement best describes the role of a network administrator?
   1. Network Administrators are responsible for maintaining websites
   2. Network administrators are responsible for the installation and maintenance of hardware and software that make up a computer
   3. Network Administrators are accountable for the installation and maintenance of the resources on a network
   4. Network Administrators have a long list of essential responsibilities but mostly focus on the design, development, and support of database management systems
2. Which statement about the systems analyst role is accurate
   1. The role includes choosing appropriate network hardware
   2. The role includes securing an organization’s network
   3. The role includes both business and technical knowledge and relies on effective communication to understand clients’ requirements
   4. The role includes planning the allocation of network addresses across an organization
3. Which statement describes the role of a systems administrator?
   1. Systems administrators are responsible for monitoring an organization's network for security breaches
   2. Systems administrators are responsible for creating, documenting, and executing manually created test plans and procedures relating to system anomalies
   3. Systems administrators are responsible for designing and developing software that makes hardware and software systems work
   4. Systems administrators are responsible for supporting, monitoring, and maintaining workplace technology and end users
4. Which role is responsible for maintaining websites?
   1. Data analyst
   2. Network Engineer
   3. Cloud architect
   4. Web Administrator
5. Which task describes the role of a database administrator?
   1. Working with organizations to keep their information systems secure and ensuring integrity, confidentiality, and availability of data
   2. Creating, documenting, executing, and manuall creating test plans and procedures relating to system anomalies
   3. Integrating data from legacy systems to newer systems and playing a role in application design and development
   4. Organizing people, time and other resources to make sure projects meet requirements and are completed on time and within budget
6. What is another title for a web administrator? (2)
   1. Web developer
   2. Cybersecurity specialist
   3. Web server administrator
   4. Webmaster
7. True or False: Although database administrators have many responsibilities, their focus is the design, development, and support of database management systems (DBMSs)
8. What is the primary duty of a computer support specialist?
   1. THe computer support specialist is mainly responsible for allowing an organization to take full control of its data
   2. The computer support specialist provides mostly technical expertise by developing and implementing IT systems for external clients
   3. The CSS primarily operates as a trainer and troubleshooter
   4. The CSS primarily identifies and helps clients adopt IT services or technologies
9. Which of the following describes a computer support specialist’s responsibilities? (3)
   1. Working the help desk
   2. Training help-desk personnel
   3. Overseeing help-desk personnel
   4. Using statistical and other quantitative methods to gain insights to support the organization’s decision-making

Section 2.4

1. True or False: Data includes raw facts or observations and given context, becomes information
2. Facts gathered from observations or from a clock that measures time are examples of data. What is not an example of data?
   1. On/Off
   2. It is cold outside
   3. 9:30am
   4. 18:30
3. In 2013, Target a retail store with an online presence, experienced a security breach that resulted in the loss of data affecting approx 40 million customers. Which types of data are prone to be stolen during card hacks?
   1. Customer names
   2. Credit and Debit card numbers
   3. Card verification values (CVVs)
   4. All of the above
4. True or False: Most of the data stored today are unstructured and include things such as text, blogs, clickstreams, tweets, and audio. This data is not organized in a way that allows for analysis
5. Unstructured data refers to data that is? (3)
   1. More complex
   2. Coded in a way that makes it easy to convert into a form usable for analysis
   3. Possibly stored in a format that is not easily decoded
   4. More time-consuming to parse through to retrieve the essential information
6. What are examples of Structured data?
   1. Telephone numbers
   2. Date of birth or transaction
   3. First and last name
   4. All of the above
7. True or False: Both structured and unstructured data are collected by most companies and are stored for potential use in record keeping and data analysis. Both types of fata contain potentially useful information
8. True or False: The term big data refers to the amount of collected data that continues to grow exponentially and is used in new and innovative ways for competitive advantage by companies like Amazon and Netflix
9. Why is merging structured and unstructured data essential?
   1. Both types of data contain essential info
   2. Most of the data stored today is unstructured
   3. Better insights and discovery of hidden connections in data help strengthen decision-making
   4. All of the above
10. A research institutes conducting a study, gathering participant survey responses to generate statistical reports and insights. How are data and info differentiated in this statistical analysis for the research study?
    1. Data encompasses the survey responses, while info is the generated statistical reports
    2. Both data and info represent the analyzed statistical reports
    3. Data consists of the organized survey responses, and info represents the raw survey data
    4. There’s no clear distinction between data and info in this research study

Section 2.5

1. Which statement is correct given that usability is very subjective, and handheld or desktop computers are generally usable based on user demands?
   1. A handheld is more usable
   2. A desktop has more processing power
   3. A handheld had more processing power
   4. A desktop is more usable
2. Which type of computer peripheral is used only as an input device?
   1. Monitor
   2. External Hard Drive
   3. Keyboard
   4. Docking Station