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Program: Information Technology

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Course title: Information Technology Management

Course Objectives:

1. Understand the fundamental concepts and principles of information systems and technologies.

2. Identify the different types of information systems and their roles in organizations.

3. Analyze the impact of information systems and technologies on business operations and strategies.

4. Evaluate the ethical, social, and legal issues related to information systems and technologies.

5. Develop basic technical skills in using common software applications and tools.

Course Description:

The course Fundamentals of Information Systems & Technologies introduces students to the basic concepts and principles of information systems and technologies. The course covers the different types of information systems, their functions, and roles in organizations. It also examines the impact of information systems and technologies on business operations and strategies. The course includes discussions on ethical, social, and legal issues related to information systems and technologies. Students will also develop basic technical skills in using common software applications and tools.

**Part I: Short Answer Test Questions:**

1. What are the different types of information systems?

Answer: The different types of information systems are transaction processing systems, management information systems, decision support systems, and executive information systems.

2. What is the role of information systems in organizations?

Answer: Information systems support organizational functions such as accounting, finance, marketing, and operations.

3. What are the ethical issues related to information systems and technologies?

Answer: Ethical issues related to information systems and technologies include privacy, security, intellectual property, and accessibility.

4. What are some common software applications and tools used in information systems?

Answer: Some common software applications and tools used in information systems include Microsoft Office Suite, database management systems, and programming languages such as Java and Python.

**Part II: Multiple Choice Test Questions:**

1. Which of the following is not a type of information system?

a. Transaction processing system

b. Database management system

c. Management information system

d. Executive information system

Answer: b. Database management system

2. What is the primary role of transaction processing systems?

a. To provide data analysis for decision making

b. To support executive decision making

c. To process and record daily transactions

d. To create reports for management

Answer: c. To process and record daily transactions

3.Which of the following is not a component of an information system?

a) Hardware

b) Software

c) Data

d) Employees

Answer: d) Employees

4. Which type of information system is used for strategic decision making?

a) Transaction processing system

b) Management information system

c) Decision support system

d) Executive information system

Answer: d) Executive information system

5. What is the role of information systems in organizations?

a) To replace human employees

b) To support organizational functions

c) To reduce costs

d) To increase profits

Answer: b) To support organizational functions

6. What ethical issue is related to the collection and use of personal data by organizations?

a) Accessibility

b) Security

c) Privacy

d) Intellectual property

Answer: c) Privacy

7. Which of the following is an example of a database management system?

a) Microsoft Word

b) Microsoft Excel

c) Oracle

d) Adobe Photoshop

Answer: c) Oracle

8. Which type of information system is used for day-to-day operations?

a) Transaction processing system

b) Management information system

c) Decision support system

d) Executive information system

Answer: a) Transaction processing system

9. What is the primary function of a decision support system?

a) To process daily transactions

b) To provide routine reports for management

c) To provide data analysis for decision making

d) To support executive decision making

Answer: c) To provide data analysis for decision making

10. What is the difference between software and hardware in an information system?

a) Software refers to physical components, while hardware refers to programs.

b) Software refers to programs, while hardware refers to physical components.

c) Software and hardware are the same thing.

d) Software refers to data, while hardware refers to physical components.

Answer: b) Software refers to programs, while hardware refers to physical components.