M.Sc. Environmental Science

First Semester

Computer Application and Information Technology

(MEV - 04)

Duration: 3Hrs.

Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Answer any five questions: 5×2=10

  a) What is multitasking OS?

  b) What are the functions of E-Commerce?

  c) Define RDBMS.

  d) What is a record?

  e) What is program? Define Data structure.

  f) Define programming language.

  g) What is TPS?

2. Answer any five questions: 5×3=15

  a) Give a brief description of Networks.

  b) What is spreadsheet Package?

  c) What are the functions of Financial accounting software?

  d) Write the classification of business files.

  e) What is flowchart? Explain the symbols used in flowcharts.

  f) Write short notes on Utility Software.

  g) Define array. How Queue is differing from Stack?

3. **Answer any five questions:** 5×5=25
   a) Draw and describe the block diagram of a digital computer.
   b) Define Data, Information and Knowledge.
   c) Describe different types of E-Commerce.
   d) What are the different types of Operating Systems?
   e) Describe CBIS.
   f) Define algorithm. Write down the steps in programming.
   g) What are the characteristics of good programming?

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PART A: Objective

Duration: 20 minutes   **Marks – 20**

A. **Choose the correct answer by tick mark:**   **1×14=14**

1) What type of computer tool allows you to save data, information, and programs into a computer?
   - a. Output device
   - b. Input device
   - c. Storage device
   - d. Telecommunications device

2) What type of software is anti-virus software?
   - a. Systems software
   - b. Utility software
   - c. Applications software
   - d. Operating systems

3) All combined, hardware and software in aggregate are what people refer to as which one of the following?
   - a. Input system
   - b. Telecommunication system
   - c. Storage system
   - d. Computer system

4) What type of computer supports hundreds of people at any given time?
   - a. Desktop computer
   - b. Super computer
   - c. Minicomputer
   - d. Mainframe computer

5) A system that responds to changes in the environment and modifies its operation accordingly is known as:
   - a. A probabilistic system
   - b. A closed system.
   - c. A deterministic system.
   - d. An adaptive system.

6) Which of the following is not an output device?
   - a. Scanner
   - b. Printer
   - c. Flat Screen
   - d. Touch Screen

7) The E-commerce domain that involves business activity initiated by the consumer and targeted to businesses is known as:
   - a. Consumer to Consumer (C2C).
   - b. Business to Consumer (B2C).
   - c. Consumer to Business (C2B).
   - d. Business to Business (B2B).

8) _____ are networks that connect people within a company to each other and to the company network.
   a. Bit streams
   b. Intranets
   c. Internet
   d. Extranets

9) Which of the following is not one of the benefits of e-commerce to sellers?
   a. E-commerce is a powerful tool for customer relationship building.
   b. E-commerce increases the net cost per contact.
   c. E-commerce can help to reduce costs.
   d. E-commerce offers greater flexibility in meeting customer needs.

10) Numbers, pictures or words without context are known as?

   a. Data   b. Information

   c. Knowledge   d. Communication

11) A collection of words, numbers or pictures which have meaning is known as?

   a. Data   b. Information

   c. Knowledge   d. Communication

12) Data becomes information once it is put into a framework or structure that provides?

   a. Knowledge
   b. More information
   c. Rules
   d. Context

13) Taking in and understanding information about a subject which then allows you to make a decision is known as?

   a. Data   b. Information

   c. Knowledge   d. Communication

14) Which of the following is correct?

   a. Information leads to data, and data leads to knowledge
   b. Data leads to information, and information leads to knowledge.
   c. Knowledge leads to information, and information leads to data
   d. Data leads to knowledge and knowledge leads to information

B) State true or false: **1×6=6**

   a) Link list is a Non-linear data structure.   True / False
   b) The basic goal of computer process is to convert data into information.   True / False
   c) RAM is volatile in nature.   True / False
   d) Array is a linear data structure.   True / False
   e) OS/2 is an operating system.   True / False
   f) Queue is FIFO data structure.   True / False

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