SOFTWARE

What Is Software?

- **Software is a set of programs or instructions that tell the computer what to do.**
- **Unlike hardware, software cannot be touched but can be used and stored digitally.**

Types of Software

A) System Software

- **This software controls the internal functioning of a computer.**

Examples:

- **Operating Systems (Windows, Linux, macOS)**

Device Drivers

- **Language Translators (Compiler, Interpreter, Assembler)**

Utility Programs
Functions:

- **Manages hardware Controls memory and CPU**
- **Provides a platform to run applications**

B) Application Software

- **Programs that help users perform specific tasks.**

Examples:

- **MS Word, Excel, PowerPoint**
- **Web browser (Chrome, Firefox)**
- **Media player**
- **Games**
- **Photoshop**

Utility Software

- **Software that helps in maintenance of the system.**

Examples:

- **Antivirus**

- **Disk cleanup**
- **Backup software**
- **File compression (WinZip, 7-Zip)**

- **Disk cleanup software**
- **Backup software**
- **Compression tools**

Programming Software
- **Tools used to write and develop computer programs.**

Examples:
- **IDEs (Visual Studio, PyCharm, Eclipse)**
- **Compilers**
- **Debuggersmer**
- **Text editors**
- **Debugger**
- **Text editor**

Software Licensing Types
- **Freeware - Free to use (Adobe Reader, VLC)**
- **Shareware-Trial versions (WinRAR)**
- **Open-source- Source code available (Linux, Blender)**
- **Proprietary - Owned and paid (Microsoft Office)**
- **Public Domain - No copyright**

Practice Questions

1. Which of the following is NOT a function of a Utility Program (or Utility Software)?
- **A) Provides a platform to run applications.**
- **B) Helps in the maintenance of the system.**
- **C) Manages hardware, memory, and CPU.**
- **D) Helps users perform specific tasks, such as creating a document.**

- **Answer: D) Helps users perform specific tasks, such as creating a document. (This is the definition of Application Software).**

2. Which type of software licensing is described as being owned and paid for?
- **A) Freeware**
- **B) Public Domain**
- **C) Open-source**
- **D) Proprietary**
- **Answer: D) Proprietary.**

3. Operating Systems like Windows and macOS are examples of which type of software?
- **A) Application Software**
- **B) Utility Software**
- **C) System Software**
- **D) Programming Software**
- **Answer: C) System Software**

4. Consider the following statements about software types:

- I. **System Software includes Language Translators like the Compiler and Interpreter.**
- II. **Application Software is defined as software that helps in the maintenance of the system, such as Antivirus and Backup programs.**

Which of the statements is/are correct?
A) I only
B) II only
C) Both I and II
D) Neither I nor II
- **Correct Answer: A) I only**

Explanation: **Statement I is correct. Statement II is incorrect; the definition and examples provided are for Utility Software.**

5. Regarding the definition and characteristics of software:

I. Software is a set of programs or instructions that tells the computer what to do.

II. Unlike hardware, software cannot be touched but can only be used; it cannot be stored digitally.

Which of the following options correctly assesses the truth of the statements?

A) I is True, II is False

B) I is False, II is True

C) Both I and II are True

D) Both I and II are False

- **Correct Answer: A) I is True, II is False**
    - *Explanation:* **Statement I is the correct definition of software. Statement II is false because software can be used and stored digitally**