

**UNIVERSIDAD DE DAGUPAN**

*SCHOOL OF INFORMATION TECHNOLOGY EDUCATION*

ITP04 | PLATFORM TECHNOLOGIES

PRELIM EXAM

**Instructions:**  Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Turn off your cell phone/s. Use of CP is not Year, Course & blk : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Allowed during exam. Subject : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Write ALL YOUR ANSWERS LEGIBLY. Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Use black pen only. Strictly: **NO ERASURE**.
* READ and FOLLOW the DIRECTIONS carefully!

**PART I: MULTIPLE CHOICE (25 PTS)**

*Direction: Write your answer before the number. (USE UPPERCASE ONLY)*

1. Which of the following is part of the university objectives?

|  |  |
| --- | --- |
| a) To build sports facilities | b). To inculcate critical thinking and provide competent human resources |
| c) To create entertainment programs for students | d) . To develop only technical skills without ethics |

2. Which statement BEST describes the University Philosophy?

|  |  |
| --- | --- |
| a) Education is only for employment. | b). Education is mainly about discipline and equality. |
| c) Education helps discover and develop man’s God-given gifts. | d) . Education is focused on technology alone. |

3. According to the University Vision, what does the institution aim to create?

|  |  |
| --- | --- |
| a) A community responsive to the challenges of the changing world | b) A community focused only on personal achievements |
| c) A community that enforces discipline and equality | d) A community of technology innovators only |

4. According to the University Vision, what does the institution aim to create?

|  |  |
| --- | --- |
| a) To inculcate critical thinking | b) To uphold discipline, justice, and equality |
| c) To improve man’s quality of life through research and community services | d) To focus only on sports and physical education |

5. What is the School Mission?

|  |  |
| --- | --- |
| a) To enforce strict discipline in the school community | b) To prepare computer professionals with the best computing science education adaptive to the global environment |
| c) To focus only on sports and extracurricular activities | d) To build a community of justice and equality |

6. What is an operating system?

|  |  |
| --- | --- |
| a) A program that only manages databases | b) A collection of hardware components |
| c) The intermediary between computer hardware and the user and application software | d) A device used to store information permanently |

7. What is the main role of a file system in an operating system?

|  |  |
| --- | --- |
| a) To manage how the CPU allocates processes | b) To organize and allow saving and accessing data such as documents, music, or photos |
| c) An instance of a class | d) A function |

8. What does the symbol .. mean in directory traversal?

|  |  |
| --- | --- |
| a) Current directory | b). Root directory |
| c) Parent Directory | d) . Home directory |

9. Which OS is primarily used in mobile devices?

|  |  |
| --- | --- |
| a) . Linux | b). iOS |
| c) . Windows Server | d) . macOS |

10. Which of the following is NOT a function of an operating system?

|  |  |
| --- | --- |
| a) . Process management | b). Painting images |
| c) . File management | d) . I/O management |

11. Which OS is known for its sleek design and integration with Apple devices?

|  |  |
| --- | --- |
| a) . Windows | b). macOS |
| c) . Android | d) . Linux |

12. Which metadata type records the history and origin of data?

|  |  |
| --- | --- |
| a) . Descriptive | b). Structural |
| c) . Provenance | d) . Administrative |

13. Which OS function is responsible for protecting files from unauthorized access?

|  |  |
| --- | --- |
| a) . File management | b). Memory management |
| c) . Signal handling | d) .Security management |

14. Which user interface requires typing commands into a terminal?

|  |  |
| --- | --- |
| a) . GUI | b). CLI |
| c) . BIOS | d) . Kernel |

15. What is the core component of an operating system that manages processes and memory?

|  |  |
| --- | --- |
| a) . Shell | b). BIOS |
| c) . Application | d) . Kernel |

16. What type of storage do SSDs use?

|  |  |
| --- | --- |
| a) . NAND flash memory | b). Magnetic platters |
| c) . Optical Discs | d) . Tape Drives |

17. Which OS is open-source, created by Linus Torvalds in 1991?

|  |  |
| --- | --- |
| a) macOS | b) Windows |
| c) Linux | d) Ios |

18. Which OS type is designed for servers to handle network and business applications?

|  |  |
| --- | --- |
| a) Client OS | b) Realtime OS |
| c) Embedded OS | d) Server OS |

19. What is the role of the command interpreter in an OS?

|  |  |
| --- | --- |
| a) To manage memory | b) To store files permanently |
| c) To store files permanently | d) To interpret and execute user commands |

20. Which is the smallest storage unit on a hard disk?

|  |  |
| --- | --- |
| a) Track | b) Cylinder |
| c) Cluster | d) Sector |

21. In a file system, what does metadata describe?

|  |  |
| --- | --- |
| a) Details such as file size, creation and modification dates, and permissions | b) The speed of the operating system |
| c) The graphical icons used to represent files | d) The type of hardware connected to the system |

22. Which user interface uses icons, buttons, and windows?

|  |  |
| --- | --- |
| a) GUI | b) Shell |
| c) CLI | d) BIOS |

23. Which of the following is a client operating system?

|  |  |
| --- | --- |
| a) Windows Server | b) Android |
| c) Ubuntu Server | d) Red Hat Enterprise |

24. Which command is the default shell interpreter for most Linux systems?

|  |  |
| --- | --- |
| a) CMD | b) Bash |
| c) ZsH | d) BIOS |

25. Which OS function manages how the CPU and memory resources are allocated to processes?

|  |  |
| --- | --- |
| a) File system | b) Security |
| c) Process Management | d) Device drivers |

**PART 2: TRUE OR FALSE (15PTS)**

*Direction****:*** *Analyze each statement carefully. Write* ***TRUE*** *if the statement is correct, and* ***FALSE*** *if the statement is incorrect. Write your answer before the number (USE UPPERCASE ONLY).*

|  |  |
| --- | --- |
| **1)** All client operating systems are free and open-source.  **2**) The operating system is considered system software.  **3)** Process management ensures that CPU time is shared fairly among processes.  **4)** The kernel is the outermost layer of the operating system.  **5** Linux was created by Linus Torvalds in 1991.  **6)** The dot (.) in directory traversal refers to the parent directory.  **7)** NTFS is a file system used in Windows | **8)** Quick format takes longer than full format because it scans for bad sectors.  **9)** A full format only deletes the file table but keeps the data intact.  **10**) NTFS is the primary file system used in modern versions of Windows.  **11)** An absolute path in Windows usually starts with a drive letter, like C:.  **12)** Metadata is data that describes other data.  **13)** A path shows the location of a file or folder in the file system.  **14)** Directories can contain both files and other directories.  **15)** FAT32 can store a single file larger than 10 GB. |

**PART 3: Identification (10PTS)**

*Direction****:*** *Analyze each statement carefully and identify the correct term. Write your answer before the number (USE UPPERCASE ONLY).*

**1)** File system default for Windows.

**2)** Which Linux file system is commonly used for Linux distribution.

**3)** The request is forwarded to this component, which knows how to communicate with and control the hardware device  **4)** A group of contiguous sectors that the file system treats as a single unit.

**5)** A hardware component that stores digital data on a physical medium

**6** It is a section of a storage device that the operating system treats as a separate space. It is like dividing a bookshelf into separate sections, each with its own purpose.

**7) I**s the process of preparing a storage device, like a hard disk drive (HDD) or solid-state drive (SSD), for data storage by setting up a file system.

**8**) It gives the full address of a file or folder, starting from the very root of the file system. This path is always complete and will take you to the correct location no matter where you currently are in the system.

**9)** This type of disk formatting creates a new file system and marks the drive as empty without checking for bad sectors or erasing existing data.

**10** It sets up the file system (e.g., NTFS, FAT32) and prepares the disk for use by the user. It organizes how files are stored and accessed but does not change the physical layout of the disk.

**PREPARED BY:**

JERICO B. GARCIA

SITE, FACULTY

**CHECKED BY:**

ARNALDY D. FORTIN, DIT

SITE, PROGRAM HEAD

**APPROVED BY:**

JANN ALFRED ARZADON QUINTO, MSIB

SITE, DEAN