

LL.M. (CBCS Pattern) Semester-III
PLFC01 - Computer (Foundation Course)

P. Pages : 1

Time : Three Hours



GUG/S/25/10167

Max. Marks : 80

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- Notes : 1. Attempt **all** questions.
2. Each question carries equal marks.

1. Explain the evolution of computers, highlighting key milestones in the history of computing. Discuss how these developments have influenced modern computing systems.

OR

- a) Describe the memory hierarchy in a computer system, including the concept of cache memory.
b) Explain the difference between positional and non-positional number systems.

2. Discuss the architecture of the internet, including the role of servers, browsers, and URLs. How has the development of the World Wide Web (WWW) influenced global communication and commerce?

OR

Define network topology and explain the different types of topologies used in computer networks. Discuss the advantages and limitations of each topology and provide examples of where they might be applied.

3. Discuss the role and responsibilities of a computer forensic investigator in the investigation of cybercrimes. How do they contribute to the prevention and resolution of cybercrimes?

OR

Describe the procedures followed by first responders during the investigation of cybercrimes. What are the best practices for evidence collection, seizure and transportation of digital evidence?

4. Discuss the concept of ethical hacking and its significance in the modern digital landscape. How does ethical hacking help in identifying and mitigating security threats and vulnerabilities?

OR

Examine the security challenges associated with wireless handheld devices and wireless networks (WLAN). How do technologies like Wi-Fi and Bluetooth contribute to these challenges, and what measures can be taken to secure mobile communications?

5. Explain the directory structure in DOS and the significance of file types. How does the booting process impact the functioning of the Disk Operating System?

OR

Provide an overview of the UNIX operating system, focusing on its history and development. Discuss key aspects such as processes, memory management I/O operations, and security features in UNIX, comparing them with DOS.
