QP CODE: **Reg No. :**
Name :

B. L. I. Sc. DEGREE (C.S.S.) EXAMINATION

First Semester

BLIS1 E02 – INFORMATION TECHNOLOGY THEORY

(2024 Admission Onwards)

Time: 3 Hours **Max. Weight: 30**

Part A (Short Answer Questions)

*Answer any **eight** questions in half a page*
Weight 1 each

1. What is a storage device ?
2. Name one difference between Windows and Linux operating systems.
3. What is the purpose of file design in data processing?
4. Define a computer network.
5. Identify the primary function of HTTP?
6. Name a programming language primarily used for web development.
7. Name one cryptographic technique used to secure information.
8. What are the benefits of using cloud computing in 'Internet of Things '(IoT)?
9. Mention the primary purpose of the Information Technology Act, 2000.
10. What does WAN stand for and what is its primary use?

[8 x 1 = 8 weightage]

Part B (Short Essay Questions)

*Answer any **six** questions on one page*
Weight 2 each

11. Explain how system software differs from application software in function and purpose.
12. Outline the basic architecture of a Database Management System (DBMS).
13. What are the primary components of the Semantic Web?
14. Explain how firewalls contribute to the security and integrity of information.
15. What is the difference between ring and token ring topologies?
16. What are the primary components of a database system?

17. Describe the primary use of JavaScript in web development.
18. Describe Social Mobile Analytics Cloud (SMAC).

[6 x 2 = 12 weightages]

Part C (Essay Questions)

*Answer any **two** questions on three pages*
Weight 5 each

19. Describe the history and development of the internet.
20. Describe the main components of computer hardware and their functions.
21. Explain the roles of various cybersecurity measures, such as firewalls, proxy servers, and cryptographic techniques, in protecting personal and corporate data.
22. Describe LAN topologies and differentiate between PAN, LAN, and WAN.

[2 x 5 = 10 weightages]