

**BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024****2023 ADMISSIONS REGULAR****B.C.A. SEMESTER III - CORE COURSE****BC3C05B23 - Information Security Fundamentals****Time : 3 Hours****Maximum Marks : 80****Part A****I. Answer any Ten questions. Each question carries 2 marks****(10x2=20)**

1. Define Vulnerability.
2. Discuss SDLC.
3. Differentiate between passive and active attack.
4. Define Hackers.
5. How to find the likelihood of a vulnerability?
6. Explain the importance of Risk management.
7. Explain netcentric information systems.
8. Define Application hardening.
9. List any two guidelines for information asset custodian.
10. Compare information owner and user.
11. Define information custodian.
12. Define information assets. Write example of an asset.

**Part B****II. Answer any Six questions. Each question carries 5 marks****(6x5=30)**

13. Explain the steps performed in the SDLC.
14. Discuss about the safeguard technology assets in an organization.
15. Explain a) Brute force attack b) Denial of service attack c) Phishing d) Spoofing
16. Explain about qualitative and quantitative risk control.
17. Write down the important steps in Risk Identification.
18. Describe the predictions of netcentric information security.
19. Discuss the protocols in ISO/OSI Layers.
20. Explain information declassification.
21. Explain authorization for Access-Owner, Custodian and user.

**Part C****III. Answer any Two questions. Each question carries 15 marks****(2x15=30)**

22. Discuss the role of Information Security in an organization.
23. Discuss on the need of Information Security in an organization.
24. Explain risk control strategies in detail.
25. Discuss about Network security in detail.