

TB213720V

Reg. No :

Name :

BCA DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022

(2021 Admissions Regular,2020 Admissions Supplementary/Improvement,2019 & 2018 Admissions Supplementary)

SEMESTER III - CORE COURSE (BCA (CLOUD TECHNOLOGY AND INFORMATION SECURITY MANAGEMENT))

BCA3B07B18 - INFORMATION SECURITY FUNDAMENTALS

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. List various layers of Information Security.
2. Discuss SDLC.
3. Discuss the relation between attack, threat, vulnerability and risk.
4. Compare Spyware and Adware.
5. Discuss the steps in risk assessment process.
6. Asset A have a vulnerability score of 60 and the no of vulnerability is equal to 1, its likelihood value is 1 with no controls the data is 90% accurate .Calculate the risk of data.
7. Define IDS.
8. Define Security perimeter.
9. Identify the steps to Provide authorization to an information custodian.
10. Define information custodian.
11. Define loss of availability.
12. Classify an information in information security.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Describe the principles and layers of Information Security.
14. Describe Social Engineering in detail.
15. Differentiate between expert hackers and unskilled hackers.
16. Explain Risk Mitigation in detail.
17. Define Risk Management .Explain it with suitable diagrams.
18. Describe the predictions of netcentric information security.
19. Discuss network attacks and its classifications.
20. Explain the guidelines for information asset custodian.
21. Explain information classification in terms of secret,confidential,prvate, and public declassification.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain the role of security professionals in an organization.
23. Explain in detail the various Attacks over Information System.
24. Write an essay on fundamental aspects of documenting risk via the process of risk assessment.
25. Explain intrusion detection system and intrusion prevention system in detail.