

NOVEMBER/DECEMBER 2019

**BESC54A — INFORMATION SECURITY**

Time : Three hours

Maximum : 75 marks

SECTION A — ( $10 \times 2 = 20$  marks)

Answer ALL the questions.

1. What is information security?
2. Define SDLC.
3. What is meant by Threads?
4. What is active and passive attacks in network security?
5. What are the methods of risk analysis?
6. Define Security Analysis.
7. What is the difference between a physical design and a logical design?
8. What is an Information security blueprint?
9. Define Cryptography.
10. How do you perform a vulnerability scan?





SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Write about the Security model.

Or

- (b) Explain the characteristics of information.

12. (a) What is need for information security? Explain.

Or

- (b) Explain the Professional issues in security Investigation.

13. (a) Explain the various types of information security.

Or

- (b) What are the four types of risk management?

14. (a) Discuss about the Information security Policy.

Or

- (b) What are the five elements of the NIST cyber security framework?



15. (a) State the difference between IPS and IDS?

Or

- (b) Discuss about the Physical Security.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Briefly and explain the components of information Systems.

17. Explain the various types of Threads.

18. Explain the five steps in risk management process.

19. Draw the neat diagram for design security Architecture.

20. Write a detailed about the Cryptographic Algorithms.