

Mumbai University

May - 2019

B.Sc.IT: SEMESTER – VI

(QUESTION PAPER)

[CBCS – Choice Based]

SECURITY

IN

COMPUTING

SECURITY IN COMPUTING

MAR – 2019 | CBCS – CHOICE BASED

MUMBAI UNIVERSITY
B.Sc.IT: SEM-VI
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Time: 2 ½ Hours

Total Marks: 75

NOTE:

- (1) All questions (Q.1 to Q.5) are compulsory.
- (2) Figures on the right indicate total marks. All sub-questions carry equal marks.
- (3) Write the question numbers clearly as mentioned in the Question Paper.
- (4) Mixing of sub-questions is not allowed.
- (5) Draw diagrams and give examples whenever necessary.
- (6) Use of calculator or any other electronic gadget is not allowed.

Q.1 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) What are the importance of Information Protection? Explain with example. (5)
- (B) Explain about various components which are used to build a security program. (5)
- (C) What are the three recognized variants of Malicious Mobile code? Explain it. (5)
- (D) Write a short note on Network-Layer Attack. (5)
- (E) Explain the two most common approaches of Security. (5)
- (F) Explain the best practices for Network Defence. (5)

Q.2 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Define Authentication. Explain two parts of Authentication. (5)
- (B) Explain the Authorization Systems. (5)
- (C) Briefly explain Public Key Cryptography. (5)
- (D) What are the three primary categories of Storage Infrastructure in Modern Storage Security? (5)
- (E) Write a short note on Integrity Risks. (5)
- (F) Explain Database-Level Security. (5)

Q.3 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Explain the Cisco Hierarchical Internetworking Model. (5)
- (B) Briefly explain Network Availability and Security. (5)
- (C) Write a short note on Hubs and Switches. (5)
- (D) Explain the features of Firewall. (5)
- (E) Explain the five different types of Wireless Attacks. (5)
- (F) What are the Countermeasures against the possible abuse of Wireless LAN? (5)

Q.4 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Explain Intrusion Defence System types and Detection Models. (5)
- (B) Write a short note on Security Information and Event Management. (5)
- (C) What are Voice over IP components? Explain it. (5)
- (D) Write a short note on Private Bank Exchange (PBX). (5)
- (E) Explain different Classic Security Model. (5)

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(F) Write a short note on Trust Worthy Computing. (5)

Q.5 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Define Virtual Machine. How Hypervisor responsible for managing all guest OS installations on a VM Server. (5)
- (B) What is Cloud Computing? Explain the types of Cloud Services. (5)
- (C) Explain the Application Security Practices and Decisions that appear in most Secure Development Lifecycle. (5)
- (D) Explain the reasons for Remote Administration Security. What are advantages of Web Remote Administration? (5)
- (E) Explain the Security considerations for choosing a Secure Site Location. (5)
- (F) Explain the different factors for securing the assets with Physical Security Devices. (5)