Code No. 298

FACULTY OF ENGINEERING & INFORMATICS

B.E. 4/4 (CSE/IT) I - Semester (Main & Backlog) Examination, December 2017

Subject : Information Security

Time : 3 Hours **Max. Marks: 75**

Note: Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (25 Marks)

1 Explain the Mc Cumber cube and illustrate its role in Information security. (2)

2 What is the difference between DoS and DDoS attack? Which one of them is more dangerous? (3)

3 What is a policy and how does it differ from Law? (2)

4 Specify reasons why risk appetite varies from organization to organization. (3)

5 Highlight the relationship between policy, standards and practices / procedures / Guidelines. (2)

6 List the three concerns to be addressed while selecting a firewall for an organization. (3)

7 Give advantages and disadvantages of padded cell. (3)

8 Discuss the commonly used attacks on crypto systems. (2)

9 Short list the various roles for staffing the information security functions. (3)

10 When an employee leaves the organization, discuss the activities to be performed under employment polices and matches. (2)

PART – B (50 Marks)

11 (a) Explain the various components of Information systems. (5)
(b) Illustrate few commonly encountered software development security problems. (5)

12 Describe the various stages of risk management and explain the stages of it with neat diagrams. (10)

13 (a) Define and elaborate the process of contingency planning. (5)
(b) Briefly describe the different ways for protecting remote connections. (5)

14 Discuss the protocols used for secure connections. (10)

15 Elaborate the major subject areas recommended for security maintenance. (10)

16 Statistical analysis, wouldn't be alone sufficient for performing risk analysis. Identify the qualitative risk control practices to be adopted by organization. (10)

17 Write short notes on the following: (10)
(a) Security Blueprint
(b) Scanning and Analysis Tools
(c) Non-technical aspects of security

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