LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

SIXTH SEMESTER – **APRIL 2023**

16/17/18UCS6MS02 – SECURITY IN INFORMATION TECHNOLOGY

Date: 12-05-2023   Dept. No.   Max. : 100 Marks
Time: 09:00 AM - 12:00 NOON

PART – A	(10 x 2 = 20 Marks)

Q. No	Answer ALL questions
1	What is information security?
2	What is the role of the CIO?
3	Define threats with respect to information security.
4	List the business needs required for security.
5	How will you select the risk control strategies?
6	Write the steps followed for risk assessment.
7	State any two goals of Information Security Governance.
8	What is continuity strategy?
9	Define biometric access control.
10	List the categories of cryptographic algorithms.

PART – B	(5 x 8 = 40 Marks)

Answer ALL the questions

11	(a) Describe the components of Information Security.
	(Or)
	(b) Explain the systems development life cycle.
12	(a) Illustrate the various business needs in information security.
	(Or)
	(b) Discuss about security professionals and the organization.
13	(a) Describe the steps involved for Risk identification.
	(Or)
	(b) How will you identify the risks in information security? Describe.
14	(a) Explain about information security blueprint.
	(Or)
	(b) Write short notes on security education training and awareness program.
15	(a) Illustrate on intrusion detection and prevention system.
	(Or)
	(b) Write short notes on scanning and analysis tools.

PART – C	(2 x 20 = 40 Marks)
Answer any TWO questions	

16.	(a) Explain briefly on security software development life cycle model.
	(b) Discuss on professional and ethical issues of information security.
17.	(a) Compare Quantitative versus Qualitative Risk Control Strategies.
	(b) Discuss about security policies, standards, and practices in detail.
18.	(a) Explain briefly on cryptographic methods and algorithms.
	(b) Discuss on Information Security Planning and Governance.

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