

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2011 –12 & thereafter)

SUBJECT CODE: 11CS/MC/IN64

B. C. A. DEGREE EXAMINATION, APRIL 2015
SIXTH SEMESTER

REG. NO. _____

COURSE : MAJOR CORE
PAPER : INFORMATION AND NETWORK SECURITY
TIME : 30 MINUTES **MAX. MARKS: 20**

SECTION-A

(20 X 1 = 20)

TO BE ANSWERED ON THE QUESTION PAPER ITSELF

I. Choose the correct answer:

1. Surge in power irregularities means _____.
a. Polonged decrease b. random decrease
c. prolonged increase d. random increase
2. _____ uses skills to steal the property of somebody else.
a. thief b. jackers c. programmers d. hackers.
3. ALE stands for _____.
a. Address latch enable b. Annualized lose expect
c. Annualized loss expectancy d. None
4. BSP stands for _____.
a. Basic security protocol b. Best security practices
c. Bad security practices d. Best secured protocol.
5. IDS stands for _____.
a. Intrusion detection system b. Intrusion demand system
c. Internet detection system d. Internet demand system
6. Process by which attackers change the format is _____.
a. Stimulus b. Evasion c. noise d. alert
7. The encoded message resulting from encryption is called _____.
a. Algorithm b. Cipher c. cryptogram d. Decipher
8. _____ is a process of hiding information and has been in use for a long time.
a. Steganography b. cryptography c. hashing d. encryption
9. VPN stands for _____.
a. Virtual public network b. Virtual private network
c. Virtual protected network d. None
10. S-HTTP stands for _____.
a. Simple-HTTP b. Stable-HTTP c. Secure-HTTP d. Standard-HTTP

II. Fill up the blanks:

- 11. MULTICS stands for_____.
- 12. Sag means _____ low voltage.
- 13. _____ are specific avenues that threat agents can exploit to attack an information asset.
- 14. MAC is _____.
- 15. _____ records failed access attempts and system modification.
- 16. A _____ occurs when an attacker attempts to gain entry into or disrupt the normal operation.
- 17. _____ converts cipher text to plain text.
- 18. _____ was created to provide a level of security far beyond DES.
- 19. PGP uses _____ cipher.
- 20. _____ is for short range wireless communication between devices.

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TIME : 2½ HOURS **MAX. MARKS: 80**

SECTION – B

Answer all the questions: **(5x2=10)**

1. Define information security.
2. List the items that impact the cost of risk control.
3. Define auditability.
4. What is work factor?
5. Expand MIME.

SECTION – C

Answer any eight questions: **(8x5=40)**

6. List the categories of threats.
7. What are the three ways of handling authorization?
8. Discuss on mitigation.
9. Write about benchmarking in risk management.
10. Discuss on different layers of security.
11. Write about gateways.
12. List the cipher methods.
13. Explain cryptographic tools.
14. (i) Differentiate WEP from WPA.
(ii) Write short notes on Honey Pots.
15. Write about IPsec headers.

SECTION – D

Answer any eight questions: **(3x10=30)**

16. Explain the approaches of IS implementation.
17. Discuss on categories of control for controlling risk.
18. Explain on firewalls.
19. Write short notes on the following:
 - (i) Hash functions.
 - (ii) Digital Signatures.
20. Explain cryptographic algorithms.
