## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - $600\,086$ (For candidates admitted during the academic year 2019-2020 and thereafter)

## B. C. A. DEGREE EXAMINATION, APRIL 2024 SIXTH SEMESTER

**MAJOR CORE** 

**COURSE** 

SUBJECT CODE TIME	: 19CS/MC/S : 3 HOURS		MAX. MARKS: 100
		SECTION A	
ANSWER ALL QU Choose the correct			$(20 \times 1 = 20)$
	• •	pens to attack or dama; Threat (d) All the	9
	he physical security for (b) ISO 27000		(d) none of the mentioned
	multitenant architect	ture.	oplication through the browser to  (d) All of the mentioned
	Router Protocol	(b) Hot Standby Ro (d) None of the me	
(a) Non-encrypte		tunnels are called as - (b) Encrypted (d) None of the me	
<ul><li>(c) Both a and b</li><li>6. Automated call dissystems are the co</li></ul>		eractive voice respons	se (IVR) systems, call recording
<ul><li>(a) Voicemail sys</li><li>(c) Call control e</li></ul>	stems lements	<ul><li>(b) Contact center</li><li>(d) All of the ment</li></ul>	components ioned s for the specified users or roles.
(a) DELETE (c) REMOVE	in rolling to many control	(b) REVOKE (d) None of the me	-
` '	tication can be done u	` /	entioned.
(a) Encryption	tication can be done t	(b) Hash function	
(c) Both a and b	)	(d) None of the me	entioned.
` '		administrators is	
(a) adware, spyw		(b) administration,	
(c) Both a and b		(d) None of the me	entioned
10. Web Application	Security concerns in	clude	
<ul><li>(a) SQL injection</li><li>(c) cookies</li></ul>	n, general attacks	(b) forms & (d) All the	±
Fill in the blanks:	~		
			hibit use by legitimate users.
12. A		ai iormula that convert	ts a string of characters to a

13. Bell-LaPadula model is a(n)	
14. Apple allows an administrator to either disable iCloud altogether o	n the device, or on a
per-app basis to prevent	,
15. Jammer is an example for attack.	
16. IPPBX stands for	
17. A device combines best features of flash drive drives.	es and portable hard
18 is the technique in which multiple copies of the same doc automatically detected and stored only once.	ument are
19. Databases offer developers the ability to create and reuse SQL cod objects called	e through the use of
20 method limits the number of connections per second per I attacks.	P address to combat
SECTION - B	
Answer <u>ALL</u> the questions	$(5 \times 2 = 10)$
21. State the objectives of computer security.	
22. Mention the security issues in TCP/IP.	
23. What is split tunnelling?	
24. Write the challenges in DLP Solutions.	
25. Define steganography.	
SECTION - C	
Answer any <u>EIGHT</u> questions	$(8 \times 5 = 40)$
<ul> <li>26. Brief about the types of attacks.</li> <li>27. Discuss the access control techniques.</li> <li>28. Write notes on the functions of hubs, switches and routers.</li> <li>29. Explain about proxy servers and its types.</li> </ul>	

- 29. Explain about proxy servers and its types.
- 30. Explain IPSec Protocol.
- 31. Discuss about wireless vulnerabilities and mitigations.
- 32. Elaborate the Kerberos authentication process.
- 33. Discuss the Storage Infrastructure facilities to be maintained for storage security.
- 34. Differentiate authentication from authorization with respect to user security.
- 35. Explain the application security practices that appear in SDL.

## SECTION - D

## **Answer any <u>THREE</u> questions**

 $(3 \times 10 = 30)$ 

- 36. Explain the concepts behind OSI security architecture.
- 37. Elucidate on core firewall functions.
- 38. Write the purpose of IDS, its types and detection models.
- 39. Describe database security layers, database backup and recovery procedures.
- 40. Illustrate the substitution techniques and write their characteristics.

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