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

SUBJECT CODE: 19CS/MC/SC65

B. C. A. DEGREE EXAMINATION, APRIL 2023 SIXTH SEMESTER

COURSE : MAJOR CORE

PAPER : SECURITY CONCEPTS

TIME : 3 HOURS MAX. MARKS: 100

SECTION A

ANSWER ALL QUESTIONS.			$(20 \times 1 = 20)$	
Choose the correct	ct answer:			
1. A	device uses distinctive	personally identifia	able characteristics or unique physical	
traits to positivel	ly identify an individual	•		
			d. None of the mentioned	
2esta	ablishes who the user is.			
a. Identification	b. Authorization	c. Credentials	d. Authentication	
3 aı	re used to restrict access	to specific service	es.	
	b. Firewalls		d. Worms	
4. A significant bu	t often missed or under-	-considered factor	in determining an appropriate	
des	ign strategy is to identif	y how the network	will be used and what is expected	
from the busines				
a. network	b. firewall	c. secur	ity d. antivirus	
5 provi	de virtual network links	based on encrypti	ng and isolating traffic at the	
packet level whi	le using commodity Inte	ernet services for tr	ransport.	
a. Router	b. VPN	c. WAN	d. Bridge	
6	_is the process of moni	toring and identify	ing specific malicious traffic.	
a. Intrusion detec	ction b. Routing	c. Identi	fication d. networking	
			rives and portable hard drives	
			state drive d. Mapping	
			"whenever specific actions	
take place within	n a database.			
a. Procedures	b. Triggers	c. Funct	ions d. Intrusion	
9k	ceys use hardware or sof	ftware based authe	nticators that generate a random	
	ne current time of day.			
a. Action based	b. Network based	c. Time	-based d. None	
10 m	nodelling is a technique	for reviewing the s	security properties of a design and	
	ential issues and fixes.			
a. Security	b. Networking	c. Thre	at d. State	
Fill in the blanks	:			
11. CCTV stands t	for			
12. All	systems are based or	n one of three diffe	erent types of human traits.	
13. The fundamen	tal purpose of TCP/IP is	s to provide compu	iters with a method of	
da	ata from one computer t	o another over a n	etwork.	

14 are more intelligent devices that learn the various MAC address				
connected devices and transmit packets only to the devices they are specifical	ly addressed to.			
15 A MIDNI: C 14 1 41 41	1 4			
15. A VPN is referred to as a because the client does not know or care about				
the actual path between the two endpoints.				
16. A is installed on the host it is intended to monitor.				
17 creates a protected zone where only identified devices within	that zone are			
allowed to communicate with each other				
18. Databases offer developers the ability to create and reuse SQL code through the use of				
objects called				
19key systems use a passphrase to generate one-time passwords.				
20 is essentially a development process that includes security practices and				
decision making inputs for software development.				
SECTION - B				
	$(5 \times 2 = 10)$			
21. What is mantrap?				
22. State the reasons to look for an information security provider for an outsource	ed services.			
23. What is split tunnelling?				
24. Write about port zoning.				
25. List out the types of authentication systems available today:				
SECTION - C				
Answer any <u>EIGHT</u> questions	$(8 \times 5 = 40)$			
	,			
26. Describe classification of assets.	4			
27. The security professional establishes controls to limit access to a facility or sy	ystem or			
privileges granted to a use in an organization. State the reason.				
28. Explain Firewall configuration.				
29. Write about Designing Security into a Network.				
30. Discuss about Encapsulating Security Payload in detail.				
31. Describe the features of IDS.				
32. Explain the two key areas of risk to data.				
33. Summarize the usage and capacities of database.				
34. List out and explain different types of File-Access Permissions.				
35. Explain with neat diagram about Secure Development Lifecycle.				

SECTION - D

 $(3 \times 10 = 30)$

- **Answer any THREE questions**36. Write the factors to be considered in choosing site location for security.
- 37. Describe the functions of core firewall.
- 38. Explain Authentication process in Remote access VPN security.39. Discuss Security areas of arrays in storage security with the diagram.
- 40. Write in detail about certificate based authentication.
