#### **Examination 2020 under cluster 4 (PCE)**

Program: BE Computer Engineering Curriculum Scheme: Rev2016 Examination: Third Year Semester VI

Course Code: CSC604 and Course Name: Cryptography & System Security

Time: 1 hour

Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Confidentiality prevents
Option A:	unauthorized creation, modification, or deletion of information
Option B:	Unauthorized disclosure and use of information
Option C:	Unauthorized delay or denial of information
Option D:	Authorised access to the resources
Q2.	If the security of the information is compromised against any action then it is
	called as what?
Option A:	Security attack
Option B:	Security service
Option C:	Security alert
Option D:	Security mechanism
Q3.	In an asymmetric-key cipher, the receiver uses which key for decrypting
	the Cipher Text?
Option A:	Public Key
Option B:	Private Key
Option C:	Session Key
Option D:	Both Public and Private Key
Q4.	A public key cipher uses
Option A:	1 key
Option B:	2 key
Option C:	3 key
Option D:	4 key
Q5.	ElGamal encryption system belongs to which Encryption Algorithm?
Option A:	Symmetric key encryption algorithm
Option B:	Asymmetric key encryption algorithm
Option C:	Not an encryption algorithm
Option D:	A block cipher method
Q6.	X.509 certificate recommends which cryptographic algorithm?
Option A:	RSA
Option B:	AES
Option C:	DES
Option D:	Elliptic Curve
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Q7.	Hashed message is signed by a sender using
Option A:	His public key

# Examination 2020 under cluster 4 (PCE)

Option B:	His private key
Option C:	Receiver's public key
Option D:	Receiver's private key
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Q8.	The standard for certificates used on internet is
Option A:	X.25
Option B:	X.301
Option C:	X.409
Option D:	X.509
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Q9.	Timestamped Digital Signatures are designed to prevent
Option A:	Replay Attack
Option B:	Chosen plaintext Attack
Option C:	Key only Attack
Option D:	Known plaintext Attack
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Q10.	What kind of attacks would be possible on Password Authentication?
Option A:	Eavesdropping and Dictionary Attack
Option B:	Key only Attack and Dictionary Attack
Option C:	Known-message Attack and eavesdropping
Option D:	Chosen Message attack and Key only Attack
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Q11.	To provide network connection between the internet and network device
	firewall is used.
Option A:	Microsoft Firewall
Option B:	CISCO Firewall
Option C:	Hardware Firewall
Option D:	software Firewall
Q12.	Firewall is defined the set of rules to observe the each incoming / outgoing
	to the network
Option A:	File
Option B:	Email
Option C:	Data Packet
Option D:	Updates
Q13.	Infected computers and other systems within the botnet are called
Option A:	Killers
Option B:	Vampires
Option C:	Zombies
Option D:	Gargoyles
Q14.	In Digital Signature, Whose keys are used for Signing and Verifying the
	Document?
Option A:	Receiver's Public key and Private Key respectively
Option B:	Sender's Public key and Private Key respectively
Option C:	Sender's Private Key and Public key respectively

# Examination 2020 under cluster 4 (PCE)

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Q15.	The secret key between members needs to be created as a key when two
_	members contact KDC.
Option A:	Public Key
Ontion B:	Private key
Option C:	Session Key
Option C.	Complimentary Key
Option D:	Complimentary Key
Q16.	Which cryptographic algorithm is used in CMAC?
Option A:	Triple DES and AES
Option B:	DES
Option C:	RC-4
Option D:	AES
017	A collection of protocols designed by the IETE (Internet Engineering Task Force)
Q17.	to provide security for a peaket at the network level is which of the following?
Outing A.	to provide security for a packet at the network level is which of the following?.
Option A:	
Option B:	SSL
Option C:	PGP
Option D:	SMTP
Q18.	are computer programs that are designed by attackers to gain root or
-	administrative access to your computer.
Option A:	Backdoors
Option B:	Rootkits
Option C:	Molworo
Option C.	
Option D:	
010	
Q19.	How do you prevent SQL injection?
Option A:	Escape queries
Option B:	Interrupt requests
Option C:	Merge tables
Option D:	Validate input
020.	Which one of the following algorithm is not used in asymmetric-key
<b>x</b> =~·	cryntography?
Ontion A.	RSA
Option D.	Deffie Hellman
Option D:	Dente nellillall
Option C:	Electronic code book
Option D:	DSA
Q21.	Convert the given plaintext "exam" into ciphertext using the Additive cipher
	encryption technique. Which of the following options is the correct ciphertext for
	the given text if the key is 2? (Note: Assign integers from 0 to 25 for the
	Alphabets A - Z)
Option A:	ZCOg
Option R.	6790
Option C:	0700
Option C:	ULLY

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# Examination 2020 under cluster 4 (PCE)

Option D:	gzco
Q22.	What is the meaning of the notation "X< <y>&gt;" used in Public Key</y>
	Infrastructure ?
Option A:	Certificate is issued by the authority Y to an Entity X.
Option B:	Certificate is issued by the authority X to an Entity Y.
Option C:	Certificate of X is included in Y's Certificate
Option D:	Certificate of Y is included in X's Certificate
Q23.	Which of the following statement is true according to the DSS and RSA digital
	Signature Scheme?
Option A:	Computation of DSS Signature is faster than computation of RSA Signature when
	using the same 'p'
Option B:	Computation of DSS Signature is faster than computation of RSA Signature when
	using the different 'p' value
Option C:	Computation of DSS Signature is slower than computation of RSA Signature
	when using the same 'p' value
Option D:	Computation of RSA Signature is faster than computation of DSS Signature when
	using the same 'p' value
Q24.	In ElGamal Digital Signature, how the second signature S2 is computed?
Option A:	$S2 = e1 \wedge r \mod p$
Option B:	$S2 = (M - dS1) \text{ inverse}(r) \mod (p-1)$
Option C:	$S2 = (M - dS1) \mod (p-1)$
Option D:	$S2 = (M - dS1) \mod p$
Q25.	ARP spoofing is commonly used to
Option A:	link an attacker's IP to a legitimate network MAC address
Option B:	link an attacker's MAC to a legitimate network IP address
Option C:	link an attacker's URL to a legitimate network IP address
Option D:	link an attacker's MAC to a legitimate network URL address

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**Correct Option** (Enter either 'A' or 'B' Question or 'C' or 'D') В Q1. Q2. A В Q3. Q4 В Q5 В Q6 А В Q7 D Q8. Q9. А Q10. А С Q11. С Q12. С Q13. С Q14. С Q15. Q16. А Q17. А В Q18. Α Q19. С Q20. Q21. D Q22. В Q23. A Q24. В Q25. В