



Name:

Enrolment No:

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, May 2020**

**Course:** Information Safety  
**Program:** Bachelor of Computer Applications  
**Course Code:** CSBC3003

**Semester:** VI  
**Time:** 03 hrs.  
**Max. Marks:** 100

**Instructions:** Use of calculators and other electronic devices is prohibited

**SECTION A**

S. No.		Marks	CO
Q 1	In cybersecurity, what does CIA stand for? a) Confidentiality, Integrity, Availability b) Central Intelligence Agency c) Cybersecurity Investigation Agency d) Cybersecurity, Internet, Accessibility	2	CO1
Q 2	What does confidentiality of data refer to? a) Rules which allow access only to all parties b) Rules which hide data c) Rules which restrict access only to those who need to know d) Rules which prevent data from being changed	2	CO1
Q 3	Which of the following is an anti virus programs? a) Norton b) Quick Heal c) K7 d) All of these	2	CO2
Q 4	Firewall is a type of _____ a) Security Threat		CO2

	b) Virus c)Worms d)None of the above	2	
Q 5	Unsolicited email is known as _____ a) Spam b) Malware c) Virus d)Spyware	2	CO2
Q 6	Which of the following principle is violated if computer system is not accessible? a) Confidentiality b)Availibility c) Integrity d)None of the above	2	CO2
Q 7	To hide information inside a picture, what technology is used? a)Rootkits b)Bitmapping c)Steganography d)Image Rendering	2	CO2
Q 8	Sniffing is used to perform _____ fingerprinting a) Passive Stack b)Active Stack c) Passive banner grabbing d) Scanned	2	CO3
Q 9	Phishing is a form of _____. a) Spamming. b) Identify Theft c) Impersonation d) Scanning	2	C03
Q 10	Under which section of IT Act, stealing any digital asset or information is written a cyber-crime. a) 65		C04

	b) 65-D c) 67 d) 70	2	
Q 11	The fullform of Malware is? a) Malfunctioned Software b) Multipurpose Software c) Malicious Software d) Malfunctioning of Security	2	CO2
Q 12	When an attempt is to make a machine or network resource unavailable to its intended users, the attack is called _____ a)denial-of-service attack b) slow read attack c) spoofed attack d) starvation attack	2	CO2
Q 13	In assymetric encryption _____ a) same key is used for encryption and decryption b) different keys are used encryption and decryption c) no key is required for encryption and decryption d) None of these	2	CO3
Q 14	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here? a) SQL injection b) HTML Injection c) Cross Site Scripting (XSS) d) Cross Site Request Forgery (XSRF)	2	CO2
Q 15	_____ is a code injecting method used for attacking the database of a system / website. a) HTML injection b) SQL Injection c) Malicious code injection d) XML Injection	2	CO2
Q 16	Which of this is an example of physical hacking? a) Remote Unauthorised access b) Inserting malware loaded USB to a system c) SQL Injection on SQL vulnerable site d) DDoS (Distributed Denial of Service) attack	2	CO3
Q 17	Which of them is not a wireless attack? a) Eavesdropping b) MAC Spoofing c) Wireless Hijacking d) Phishing	2	CO2

Q 18	Which method of hacking will record all your keystrokes? a) Keyhijacking b) Keyjacking c) Keylogging d) Keyboard monitoring	2	CO2
Q 19	Playfair cipher is an example of _____ a) mono-alphabetic cipher b) poly-alphabetic cipher c) transposition cipher d) additive cipher	2	CO3
Q 20	Encryption in PLayerfair cipher is done using _____ a) a 5×5 table b) a 6×6 table c) a 7×7 table d) a 8×8 table	2	CO3
Q 21	What will be the plain text corresponding to cipher text “BPKYFS” if playfair cipher is used with keyword as “SECRET” (assuming j is combined with i)? a) INDIAN b)WORLD c) DOLLAR d) HELLO	2	CO3
Q 22	What is the rule for encryption in playfair cipher if the letters in a pair are identical? a) then that pair is neglected b) a null is added in between the letters c) one of the identical letter is replaced by some other letter d) then both of the letters are replaced by the letter appearing just next in the row	2	CO3
Q 23	Hill cipher requires prerequisite knowledge of? a) Integration b) Differentiation c)Matrix Multiplication d) None of these	2	CO3
Q 24	What will be the size of a key matrix in hill cipher if the plain text is “SECRET”? a) 1×6 b)1 x 5 c) 6x 1 d) 6x6	2	CO3
Q 25	Caesar Cipher is an example of a) Poly-alphabetic Cipher b) Mono-alphabetic Cipher c) Multi-alphabetic Cipher d) Bi-alphabetic Cipher	2	CO3
Q 26	In which year India’s IT Act came into existence? a) 2000 b) 2001 c)2008 d)2010	2	CO4

Q 27	Cyber-crime can be categorized into _____ types. a)4 b) 2 c) 3 d) 1	2	CO4
Q 28	Decrypt 'FX' using Ceaser cipher taking key as='6' (Take A=1, B=2,..)". a)KD b) OP c) EX d) AS	2	CO3
Q 29	_____ company suffered one of the largest data breach problem. a)IBM B)Google c)Bing d)Yahoo	2	CO1
Q 30	ISMS is abbreviated as _____ a) Information Server Management System b) Information Security Management Software c) Internet Server Management System d) Information Security Management System	2	CO1
<b>Section B</b>			
Q 1	Explain CIA Triad in detail with proper example.	10	CO1
Q 2	Distinguish between Network Based and Web application Based Security. Give examples of each in which algorithms they are used.	10	CO2
Q 3	What are the salient features of IT ACT 2000?  <b>OR</b>  Discuss the key points of ISO 27001.	10	CO4

Q 4	<p>Apply Playfair Cipher algorithm to encrypt the plain text “COME TO THE WINDOW” using the key as “KEYWORD”.</p> <p style="text-align: center;"><b>OR</b></p> <p>Apply Playfair Cipher to decrypt the encrypted text “ YIEAESVKEZ” using “KEYWORD” as the key.</p>	10	CO3
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