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GIET UNIVERSITY, GUNUPUR – 765022
 B. Tech (Fifth Semester – Regular) Examinations, December – 2022
BPCCT5040 – Foundations of Computer Security
 (CST)

Time: 3 hrs

Maximum: 70 Marks

Answer ALL Questions**The figures in the right hand margin indicate marks.****PART – A: (Multiple Choice Questions)****(1 x 10 = 10 Marks)**

<u>Q.1. Answer ALL questions</u>	[CO#]	[PO#]
a. Identify the term which denotes that only authorized users are capable of accessing the information (i)Confidentiality (ii)Availability (iii)Integrity (iv)Non-repudiation	1	1
b. Identify the oldest phone hacking technique used by hackers to make free calls. (i) Spamming (ii) Phreaking (iii) Cracking (iv) Phishing	1	1
c. Choose among the following techniques, which are used to hide information inside a picture. (i) Image rendering (ii) Steganography (iii) Rootkits (iv) Bitmapping	2	1
d. Which of the following is used for monitoring traffic and analyzing network flow? (i) Managed detection and response (ii) Cloud access security broker (iii) Network traffic analysis (iv) Network security firewall	3	1
e. The linking of computers with a communication system is called (i) Assembling (ii) Interlocking (iii) Pairing (iv) Networking	2	1
f. The phrase ____ describe viruses, worms, Trojan horse attack applets and attack scripts. (i) Spam (ii) Phishing (iii) Malware (iv) Virus	2	1
g. Abuse messaging systems to send unsolicited is (i) Phishing (ii) Adware (iii) Firewall (iv) Spam	1	1
h. Identify the term which denotes the violation of principle if the computer is no more accessible. (i) Access control (ii) Availability (iii) Confidentiality (iv) All of the above	3	1
i. Which software is mainly used to help users detect viruses and avoid them? (i) Antivirus (ii) Adware (iii) Malware (iv)None of the above	3	1
j. Which of the following is considered an element of cyber security? (i) Network security (ii) Operational security (iii) Application security (iv) All of the above	4	1

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)**Q.2. Answer ALL questions

	[CO#]	[PO#]
a. What is computer security?	1	1
b. Write down the formula for CIA structure.	1	2
c. What are the threats models used in network?	1	3
d. What is document object model?	2	1
e. What is the meaning of DNS?	2	1
f. Define security protocol in network	3	2
g. What is Secure coding?	3	1
h. What is the mechanics of TTM?	4	2
i. What is trusted computing?	4	2
j. What is the need of risk management in android?	4	1

PART – C: (Long Answer Questions)**(10 x 4 = 40 Marks)**Answer ALL questions

	Marks	[CO#]	[PO#]
3. a. Write down the difference between Computer and Network Security.	5	1	3
b. What is control hijacking? Explain with its attack and defence?	5	1	2
(OR)			
c. What is Least Privilege? Write down the principle of least privilege?	5	2	3
d. Draw and explain the phases of internet protocol.	5	2	1
4. a. Draw and explain the security model of WEB application.	5	2	2
b. Explain OS mechanism and explain how it control its access?	5	2	1
(OR)			
c. What is CIA structure? Explain with each terms?	5	1	1
d. What is exploration technique how it will be useful in fusing technique?	5	1	2
5. a. What is denial of Service attack and how it dealing with unwanted traffic.	5	3	1
b. What is Computer Virus and how it effect in network structure of system?	5	3	1
(OR)			
c. Explain the mechanics of TPM.	5	4	2
d. What is information security? How it effect in risk Assessment?	5	4	3
6. a. Draw the model of Mobile platform security? Explain it.	5	4	2
b. Draw the security model for IOS mobile platform and briefly explain it?	5	4	3
(OR)			
c. Short notes on:- i)Spyware , ii)Key-loggers.	5	3	1
d. Short notes on: i)Filters, ii)Secure protocol	5	3	1

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