

Term End Examination

Dec 2023

CET3004B - Information and Cyber Security

Question Paper ID: 026364

Faculty/School	Engineering and Technology	Term	Semester V
Program	TY B.Tech CSE	Duration	2 Hours 30 Minutes
Specialization		Max. Marks	70

Section - 1 (7 X 10 Marks)

Answer any 7 questions

1	Assuming that you are a IT manager in a company, devise 10 IT policies for usage of various Software and Hardware services.	3	10 marks	CO3	Applying
2	Solve following for X using Chinese remainder theorem. Also suggest and justify application of CRT with commercial example. $X \equiv 2 \pmod{3}$ $X \equiv 4 \pmod{5}$ $X \equiv 5 \pmod{7}$	2	10 marks	CO1, CO2	Applying
3	Consider the public key certificate and list, state the 10 parameters in the certificate.	3	10 marks	CO1, CO3	Understanding
4	Define different types of keys and further examine, and state the 5 key management issues.	3	10 marks	CO1, CO2	Analysing
5	Draw the Kerberos authentication and access control system and state the steps to operate the access control of certain IT resource.	3	10 marks	CO2, CO4	Applying
6	Analyze, as how each of the ISO-OSI networking layer affected due to security threats.	3	10 marks	CO1	Analysing
7	Draw SSL protocol system and state its protocol functions.	3	10 marks	CO4	Understanding
8	Relate following cyber-attacks, such as Phishing, Salami, Spyware, Ransomware, Cyber Stalking, with reference to its impact on security goals.	3	10 marks	CO1, CO5	Analysing
9	Illustrate Man-in-the-middle attack with suitable diagram and along with remedial measures.	3	10 marks	CO4	Understanding
10	Which are the digital transactions not applicable as legal, as per the IT act 2008, in its initial version?	3	10 marks	CO3	Remembering

END OF QUESTION PAPER