


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, May 2022</b>			
<b>Course: SECURITY OF E-Systems AND NETWORKS</b> <b>Program: M.Tech (CSE)</b> <b>Course Code: CSCS 7004</b>		<b>Semester: II</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>Instructions: Attempt All Questions.</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q1	What are 4 Common Web site attacks?	4	CO4
Q2	What are various motives behind cyber-attacks?	4	CO5
Q3	How is wiretapping a threat in transit?	4	CO2
Q4	State the Security Problems in IEEE 802.11.	4	CO2
Q5	What do you understand by Drive-By Downloads?	4	CO3
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q6	What are 4 Common Web site attacks? Explain.	10	CO4
Q7	What are various Message confidentiality and integrity threats? Explain by taking appropriate examples.	10	CO3
Q8	How are WLANs Different from LANs? What are the unique security conditions that you envisage in WLANs?	10	CO1
Q9	State atleast 3 Network security and forensics tools and explain in short their usage.  OR  State the functions of S/MIME.	10	CO3
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q10	What needs to be done to protect our PSUs? What are the major challenges while protecting out PSUs?	20	CO4
Q11	Explain DDoS attacks. How can BotNets be a very challenging DDoS	20	CO5

attackers? Mention steps to mitigate Botnets.

OR

Describe the following in detail and the countermeasures needed for:

- a) Wiper Attacks
- b) Spyware/Malware
- c) Rogue Software
- d) Unpatched Software