

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2025

M.Tech-II Semester (CSE/IT)

COURSE CODE (CREDITS): 18M1WC1113(3)

MAX. MARKS: 35

COURSE NAME: Cyber Warfare & Cyber Crime

COURSE INSTRUCTORS: Dr. Rakesh Kanji

MAX. TIME: 2 Hours

**Note:** (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	CO	Marks
Q1	Explain the features of Computer Worm. Show snippet code of sendmail and Finger Daemon exploitation of Morris Worm.	CO6	2+3
Q2	List down the important functions name are invoked to implement backdoor remote access. Describe the steps to implement Ransomware. Distinguish IOT worms from peer to peer worm?	CO6	1.5+2+1.5
Q3	How Virus is different form Worms? Name the different types of Virus are present? Show snippet code of macro exploitation to implement virus.	CO6	1+2+2
Q4	Identify the distinguish features of VM obfuscation. Use this to develop the code for $(x * 42 - y) \% 7$ . Why VMProtect is preferred for this purpose?	CO6	2+2+1
Q5.	Identify the significance of process injection to make the Virus. Describe the different ideas to implement it. Provide the flow of functions to implement Remote process injection.	CO6	1+2+2
Q6.	Distinguish the Stack based VM from Register based VM with bytecode of $(x * 42 * y) \% 7$ . Provide the flow of functions to implement Token Kidnapping. Identify virus application of it.	CO6	2+2+1
Q7.	Explain the importance of windows token. Explain the validation parameters and Windows Subsystem Post Initialization in Windows program execution. Describe the windows firewall system?	CO2	1+2+2