

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING CONTINUOUS ASSESSMENT TEST - II SI

FALL SEMESTER 2024-2025

SLOT: E1

Programme Name & Branch

Course Code and Course Name

Faculty Name(s)
Class Number(s)
Date of Examination
Exam Duration

: B.Tech - BBS

: CBS3002-Information Security

: Dr. K. Vimala Devi : VL2024250103232

: 17.10.2024

: 90 minutes

Maximum Marks: 50

General instruction(s):

Answer All Questions

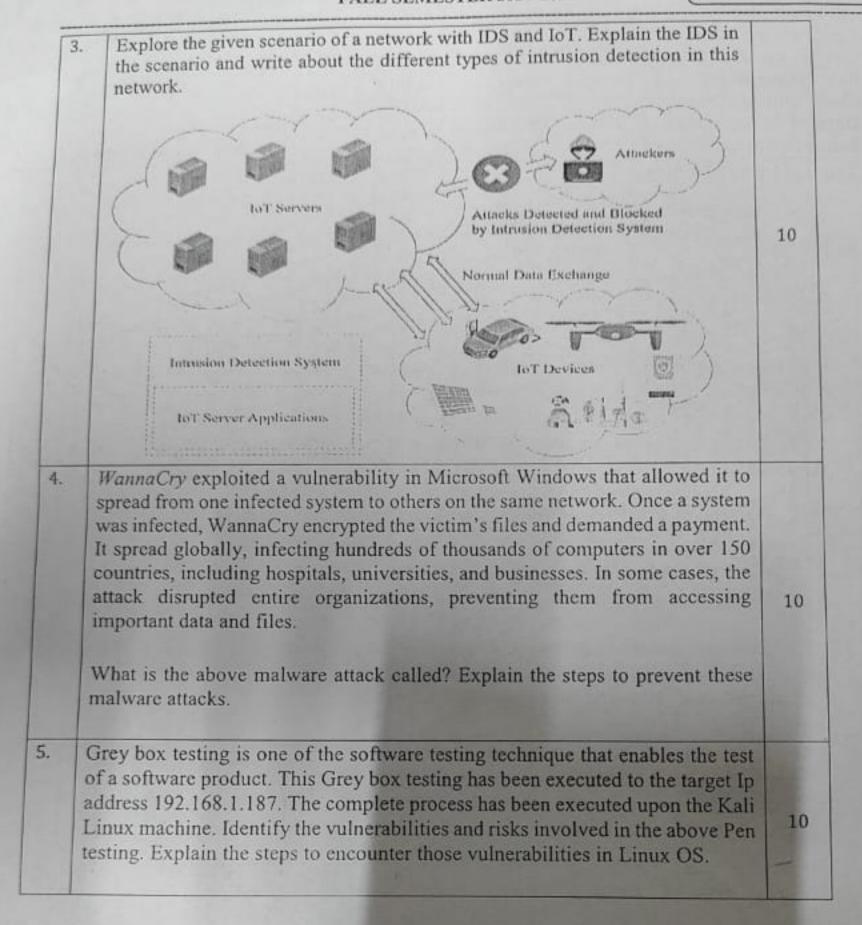
O Ma	Question	M
Q. No 1.	a) The credentials inputted are in an authentication system are either correct, or they're not. But what if the check fails entirely, say, because of an unexpected outage of electricity in the database server? Your code keeps running, but you get a "DB not found" error. Did you consider that? In the same scenario, what if, for example, your SQL query fails due to non-unicode characters that suddenly appeared as input?	5
	Explain how do you handle the above situations by following the appropriate design principle to make the system safe?	
	b) The administrator of an eCommerce site, for example, should not be able to make purchases. And a user of the same site is promoted to the administrator role, to make purchases. He is altering the orders or give him selves, the free products.	5
	What design principle can be applied for the above scenario to make sure that the tasks are split into (and limited to) appropriate user types, though this principle could also apply to subsystems? Explain.	
2.	Consider a client/server situation: the client sends a data request to the server; the server uses the data, performs some function, and sends the results (data) back to the client. Discuss about the confinement problem in the above situation. Write about the rule of transitive confinement and covert channel with example.	10





SCHOOL OF COMPUTER SCIENCE AND ENGINEERING CONTINUOUS ASSESSMENT TEST - II FALL SEMESTER 2024-2025

SLOT: E1



Page 2 of 2

