



School of Computer Science Engineering

Winter Semester 2023-2024

Continuous Assessment Test – II

Answer Key

Programme Name & Branch

Course Name & code: Information Security Management / BCSE354E


Class Number (s): Applicable to all

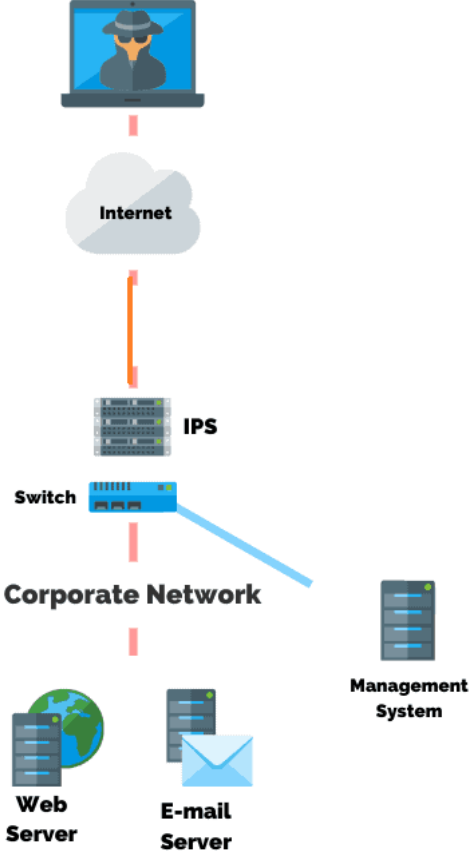
Faculty Name (s) Applicable to all

Exam Duration: 90 Min.

Maximum Marks: 50

General instruction(s):

Q.No	Question	Max Marks	CO	BL
1.	<p>You are working in an organization which they announce work from home. It is not possible to lay dedicated or leased lines for secured communication. Provide solutions with neat diagram, configuration and testing.</p> <p><u>Answer: VPN configuration</u></p>	10	CO 2	BL 5
2.	 <p>Write standard ACL to implement the above scenario to deny 192.168.3.3</p> <p>Justify your ACL command (standard) with proper reason of how it is implementing the above scenario.</p> <p><u>Answer: Standard ACL configuration</u></p>	10	CO 2	BL 3
3.	<p>In Vellore Institute of Technology, Vellore, there are several branches are available. The finance section requires higher level network traffic filtering device. Propose a solution with neat diagram, configuration and testing.</p> <p><u>Answer: Firewall configuration</u></p>	10	CO 2	BL 5

4.	 <p>The diagram illustrates a network security architecture. At the top, a laptop icon representing an external threat is connected to a cloud labeled 'Internet'. A red arrow points from the Internet to a device labeled 'IPS' (Intrusion Prevention System). Below the IPS is a 'Switch', connected by a red line. The Switch is connected to a 'Corporate Network', which is represented by a red dashed line. The Corporate Network contains a 'Web Server' (represented by a globe icon) and an 'E-mail Server' (represented by an envelope icon). A blue line connects the Switch to a 'Management System' (represented by a server rack icon).</p> <p>Provide configuration of the major security device in the above diagram with proper explanation.</p> <p><u>Answer: IPS configuration</u></p>	10	CO 3	BL 3
5.	<p>A small organization requires basic level deduction systems using Intrusion detection systems (IDS). Design a network using IDS and its components. Provide step-by-step configuration with proper explanation.</p> <p><u>Answer: IDS configuration</u></p>	10	CO 3	BL 2