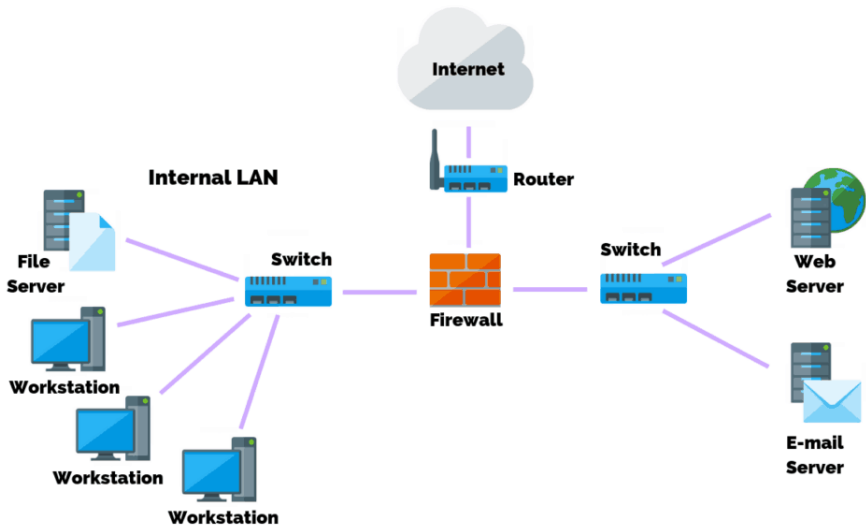
	<p style="text-align: center;"><b>RV College of Engineering®</b>  <b>Department of Computer Science and Engineering</b>  <b>CIE - I: Test Paper</b></p>		
<b>Course &amp; Code</b>	<b>INTRODUCTION TO CYBER SECURITY</b> <b>(22EM206)</b>		<b>Semester: II</b>
<b>Date :July 2023</b>	<b>Duration:</b> 90 minutes	<b>Max.Marks:</b> 50 Marks	<b>Staff :</b>
<b>USN :</b>	<b>Name :</b>		

**NOTE:** Answer all the questions

Sl.no.	Questions	Marks	* BT	*CO
1.a	Cyber Security is all about securing the Cyber Space. What you mean by Cyber Space. Trace the evaluation of Cyber space from the early computing era of mainframe to present mobile communication. Identify the technical revolutions happened in each transition.	5	L2	CO1
1.b	Similar to evaluation of Cyber Space, Cybercrime is evolved. Trace its evolution from early stage of stand-alone main frames to current emphasize on Information security.	5	L2	CO1
2.a	Karnataka Govt recently announced the Gruha jyothi scheme where every house hold is given 200 Units of Electricity free. For this one need to register at the <a href="https://sevasindhugs.karnataka.gov.in">https://sevasindhugs.karnataka.gov.in</a> by providing RR number provided by electricity board and Aadhar Number given by the central government (Pictorially represent them). Identify the entities associated with the Information security and Cyber Security. Also, identify the threats associated with them.	5	L3	CO2
2.b	Identify and explain in brief the steps involved in the Security System Development Life Cycle (SecSDLC).	5	L2	CO1
3.a	ICICI Bank customers received an e-mail from someone who posed as an official of the bank and asked for sensitive information like the account holders Internet login name and password and directed them to a Web page that resembled the banks official site. Identify the set of all possible cyber crimes involved in this scenario.	5	L3	CO1
3.b	Are password sniffing and email spoofing same. Justify your answer	5	L2	CO1
4.a	Why is it difficult curb the cyber crime at the global level. Justify. Also give the problems faced and efforts made at India and global level to curb the cyber crime.	5	L2	CO4

4.b	Give one practical scenarios for the following Cyber crimes <ul style="list-style-type: none"> <li>• Data diddling</li> <li>• Salami Attack</li> </ul>	5	L2	CO1
5.a	 <p>The above figure is the example of an enterprise network that contains firewall to filter un solicited messages, router to connect to the external world, many application servers, many remote access server, and workstations. List out the possible vulnerabilities that the attackers look into for the exploit.</p>	5	L4	CO3
5.b	Explain different phases that the criminals plan for their attack.	5	L2	CO2

#### COURSE OUTCOMES:

<b>CO1:</b>	Understand the cyber-attacks and their principles for different domains- social media, E-commerce, and digital devices.
<b>CO2:</b>	Analyse vulnerabilities in different domains that the attacker capitalizes for attack.
<b>CO3:</b>	Apply different attacking techniques that make use of vulnerabilities available in various domains.
<b>CO4:</b>	Evaluate methods to cover different vulnerabilities to safeguard the systems against cyber-attacks.
<b>CO5:</b>	Investigate modern tools and technologies available to mitigate cybercrime attacks.

	L1	L2	L3	L4	L5	L6	CO1	CO2	CO3	CO4	CO5
<b>Marks</b>	-	30	15	5	-	-	30	10	5	5	-