Name: Enrolment No:				
		IPES amination, December 2024.		
Cor	Irse: Application Security	Time: 03 hrs		
Program: BCA-CSF Max. Marks: 100				
		Semester: 5		
	Attempt all quastions	4 Drovido the question number		
	. Attempt all questions. . Be precise and to the point.	 Provide the question number. Handwriting should be clear. 		
 Be precise and to the point. Begin answer to each question on a new page of the No calculators, electronic gadgets, o 		aranh shee	te	
answer sheet.		graph shee	15	
NOTE	: Answering both questions in a single choice will disn			
S. no.	SECTION A		Marks	CO
Q1	What is Application Security, and why is it important?		2+2	1
Q2	Explain the concept of the Open Web Application Security Project (OWASP) Top Ten and its			
x -	significance in Application Security.		2+2	2
Q3	Describe how SQL Injection works and suggest one method to prevent it.		2+2	3
Q4	What is Cross-Site Scripting (XSS), and how can it be mitigated in web applications?		2+2	4
Q5	Discuss the role of Authentication and Authorization in Application Security. How do they differ?		2+2	5
	SECT	FION B	<u>.</u>	
Q6	Explain the Software Development Life Cycle (SDLC) and the role of Security in each phase of SDLC.		10	1
Q7	Describe the three types of Cross-Site Scripting (XSS) attacks: Reflected, Stored, and DOM-Based		2+2+2	
-	XSS. Provide an example and a prevention method for each.		+2+2	2
Q8	What is the principle of Least Privilege, and how does it apply to Application Security? Provide examples of its application.		10	3
Q9	What are the differences between Symmetric and Asymmetric Encryption, and where are they used in			
	Application Security?			
	OR		2+2+2	
	Explain the concept of eavesdropping in application security. How does eavesdropping occur in network communication, and what techniques can be used to prevent it? Provide examples of tools used by attackers for eavesdropping and security measures that organizations can implement to secure data in			4
		it organizations can implement to secure data in		
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010			<u> </u>	T
Q10	Describe Multi-Factor Authentication (MFA) and its significance in Application Security. How does MFA improve security, and what are its limitations? Provide examples of common MFA methods and		20	5
	discuss scenarios where MFA is particularly beneficial.		20	5
Q11	Explain the importance of Secure Coding Practices in Application Security. Describe three common			
Z 11	vulnerabilities that secure coding practices address and the specific practices that can prevent them.			
	OR		20	5
	What is Threat Modeling, and how is it applied in the Application Security process? Describe the steps			
	in a threat modeling process and give an example of ho			