GALGOTIAS UNIVERSITY

School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem VI - R1UC607C - Secure Software Engineering

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	What are some common tools and techniques used for conducting code analysis in software development?	K1(2)
2)	Define Low level design and High level design?	K2(4)
3)	Discuss the potential consequences of these threats and sources on the security.	K2(6)
4)	How do confidentiality, integrity, and availability contribute to the overall security posture of software systems?	K3(9)
5)	Why Requirements priortization plays the crucial role while developing the secure software?	K3(9)
6)	Explain the concept of "security by design" and its relevance to software engineering.	K5(10)
7)	How can stakeholders collaborate to identify and prioritize the desired security properties for a software system?	K4(12)
8)	Explain some methods which can influenece the properties of a software : Secure software?	K5(15)
9)	Explain the role of standards and protocols in facilitating seamless integration during system assembly.	K5(15)
10)	Suppose you are given the following requirements for a simple database for the National Hockey League (NHL): · the NHL has many teams, · each team has a name, a city, a coach, a captain, and a set of players, · each player belongs to only one team, · each player has a name, a position (such as left wing or goalie), a skill level, and a set of injury records, · a team captain is also a player, · a game is played between two teams (referred to as host_team and guest_team) and has a date (such as May 11th, 1999) and a score (such as 4 to 2). Construct a clean and concise ER diagram. List your assumptions as well as any role indicators in your ER diagram.	K6(18)