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School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem VI - R1UC607C - Secure Software EngineeringGeneral 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) How do you ensure software security? K2 (2)
- 2) Discuss Top down and bottom up approach of Design? K1 (3)
- 3) What are common challenges in software security? K2 (4)
- 4) Explain the importance of identifying and mitigating these threats and sources to enhance the overall security posture of software system K2 (6)
- 5) Compare and contrast the concepts of authentication and authorization in the context of software security. K3 (6)
- 6) What are some common threats to software security? How can organizations mitigate threats to software security? K3 (9)
- 7) What are the benefits of detecting software security issues early in the development lifecycle? K4 (8)
- 8) Discuss the importance of maintaining secure configurations for servers, databases, and other components to minimize security vulnerabilities. K4 (12)

OR

- How does timely patch management influence the security properties of software systems? K4 (12)