

M. Tech. –III (Computer Engineering) (CBCS – 2015 Course) :
WINTER - 2018

SUBJECT: SELF- STUDY PAPER- I SOFTWARE SECURITY

Day: Saturday
Date: 08/12/2018

W-2018-3199

Time 11.00 AM TO 02.00 PM
Max Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to Right indicate **FULL** marks.
 - 3) Assume suitable data **WHENEVER** necessary.
 - 4) Both the sections should be written in **SEPARATE** answer book.
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SECTION - I

Q.1 How does the software security is applied in every phase of SDLC? Explain (10)
in detail.

OR

Q.1 Explain three pillars of software security with reference to mapping of (10)
software security knowledge catalogs to various software artifacts and
software security best practices.

Q.2 In client server application that manipulated a financially sensitive database, (10)
find out misuse and abuse cases?

OR

Q.2 Explain square process model in detail by considering the following points: (10)
tools, steps, output and final result.

Q.3 With the help of security principles and guidelines and pattern explain in (10)
detail software security knowledge for architecture and design.

OR

Q.3 What is the roll of risk analysis in secure software architecture and design? (10)

SECTION - II

Q.4 Which are the minimum set of secure coding practices that should be (10)
implemented when developing and deploying applications?

OR

Q.4 Which are the Basic principles and techniques of software security testing? (10)

Q.5 Why there is need of Automated code review tools for security? (10)

OR

Q.5 Explain the process of catching implementation bugs in detail (10)

Q.6 With help of examples give the details of functional and attackers (10)
perspectives for security analysis.

OR

Q.6 “Is complexity really the enemy of software security?” Elaborate. (10)

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