

AQ – 2901

Second Semester M. E. (Computer Science and IT) Examination

INFORMATION TECHNOLOGY AND SECURITY

Paper - 2 RNME 3

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All question carry equal marks.
(2) Due credit will be given to neatness and adequate dimensions.
(3) Assume suitable data wherever necessary.
(4) Illustrate your answer necessary with the help of neat sketches.
(5) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (a) Explain Information policies regarding release and prevention of information. 6
(b) Explain simmons decision principles use in construction and verification of cryptographic protocol. 7

OR

2. (a) Explain software security in detail. 7
(b) What are the impact of Hardware and software to execute any security mechanism ? Explain. 6
3. (a) Explain WLAN in terms of its standard, structure and message types. 8
(b) Explain 802.11 security mechanism. 6

OR

4. (a) Explain encryption method in 3G with the help of neat diagram. 8
(b) Explain software security testing cycle with neat diagram. 6
5. (a) Enlist an advantages of tool and techniques of digital forensics. 6
(b) Explain different phases of digital investigation process. 8

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OR

6. (a) Explain formal and informal security management in brief. 8
(b) What are methods and tactics of Social Engineering ? Explain. 6
7. (a) What is routing in MANET ? Describe its goals. 7
(b) What is network scanner ? Why it is important ? Also state and explain their function. 6

OR

8. (a) Explain working of "Nessus" remote security scanner tool. 6
(b) Explain dynamic source routing with neat diagram. 7
9. (a) What are various network components ? Explain the function of each component. 7
(b) What are possible attacks through proxy server ? Explain. 7

OR

10. (a) Explain VPN model along with threats and safe guards. 6
(b) Differentiate between :—
(i) Dos and DDoS attack.
(ii) Stack and Heap. 8
11. (a) Explain post-office protocol. 6
(b) What is programming exploits ? Explain use of Activex control and vulnerabilities in Activex control. 7

OR

12. (a) Explain different types of incidents. 6
(b) What are the tools used to exploit web vulnerabilities ? Explain. 7

