

R18

Code No: 156FJ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, July - 2023

MOBILE APPLICATION SECURITY

(Computer Science and Engineering – Cyber Security)

Time: 3 Hours

Max. Marks: 75

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) List the Top Issues Facing in Mobile Devices. [2]
- b) Overview the Physical Security. [3]
- c) List the WAP and Mobile Browser Weaknesses. [2]
- d) Discuss Mobile HTML. [3]
- e) Write the Bluetooth security Standards. [2]
- f) What is Bluetooth Pairing? [3]
- g) What is Multimedia Messaging Service? [2]
- h) How do you ensure SMS Security? [3]
- i) What is the role of PIN in mobiles? [2]
- j) Write the iPhone security features. [3]

PART – B

(50 Marks)

2. Explore the following:
 - a) Virus and Worms
 - b) Malware. [5+5]
- OR**
- 3.a) Discuss the Cross-Site Request Forgery (CSRF) with an example.
b) Explore the Strict Usage and Enforcement of SSL in real world. [5+5]
4. Examine the following:
 - a) Lack of HTTPOnly Flag Support
 - b) Lack of SECURE Flag Support. [5+5]
- OR**
5. Explain the following:
 - a) Non-SSL Login
 - b) WAP Limitations. [5+5]

- 6.a) Describe the Bluetooth Network Topology.
b) Discuss the Modes of Operation of Bluetooth. [5+5]

OR

- 7.a) Explain the Threats to Bluetooth Devices and Networks.
b) Describe the Traditional Security Services in Bluetooth. [5+5]

8. Illustrate the Wireless Application Protocol (WAP). [10]

OR

- 9.a) Discuss the Abusing Legitimate Functionality with an example.
b) Explore the Motorola RAZR JPG Overflow. [5+5]

- 10.a) Explain the Security Policy Enforcement.
b) How do you protect the device from Buffer Overflow problem? [5+5]

OR

- 11.a) What is Application Sandboxing? Explain.
b) Discuss in detail about Application Signing and Permissions. [5+5]

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Used Paper July/Aug-2023