

MCA.V/01.21.002

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**B**

**MCA DEGREE FIFTH SEMESTER EXAMINATION, JANUARY 2021**  
**16-381-0569 WIRELESS SECURITY**

**Time: 3 Hours**

**Maximum Marks: 50**

**(Answer ANY FIVE questions)**  
**(All questions carry EQUAL marks)**

**Time : 3 Hours**

**Maximum Marks : 50**

**Part A**

**Answer any 5 questions. All questions carry EQUAL marks**

**5 X 10 = 50 marks**

- I Session hijacker performs a step-by-step procedure to launch session hijacking. Identify the vulnerabilities in the network that are utilized by the attackers with supporting tools in each step. Explain steps in session hijacking with TCP scenario. Also differentiate TCP session Hijacking and UDP session hijacking. (10 Marks)
- II a. With a neat diagram explain WAP Protocol stack and protocols operating in each layer.(6 Marks)
- b. Consider a personal hotspot as wifi network which allows maximum 10 devices. When opening the wifi settings of the hotspot device a user can notice two different identifiers 'Galaxy M31FFFC' and 4C:64:CF:CE:54:55. Mention the type of wifi network and identify SSID and BSSID of the network. (4 Marks)
- III Illustrate the working of RC4 encryption algorithm. Compare normal RC4 with WEP RC4 and RC4 used in WPA.(10 Marks)
- IV a What is the main vulnerability of open authentication in wireless environment? Give the security practice that we need to follow for protecting our valid information from this vulnerability. (2 Marks)
- Write the 4 steps for securing the Wi-Fi routers. ( 2 Marks)
- b Describe the working of WEP PSK authentication protocol and WPA RADIUS protocol. (6 Marks)
- V With a suitable block diagram explain about all the components of RFID.(10 Marks)
- VI a Define communication mode. What are different types of communication modes supported by RFID? (4 Marks)
- b List and briefly explain RFID Tag capabilities. (6 Marks)
- VII Explain different wireless hacking techniques. (10 Marks)

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