**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **3BC5134** | Roll No. | Total Printed Pages: 2 |
| **3BC5134** |  |
| BCA III Year V-Semester (Main/Back) End Semester Examination, November 2022  **(Mobile)** | |
| **BCM05104 : Mobile Security** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1. --------------------------Nil--------------------** **2. ------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | List out and explain any six primary risk of mobile device? | **(6)** | **Understanding and evaluating** |
|  |  |  |  |  |
|  | **(b)** | Foe security of mobile devices a specific model is required Draw and explain the security life cycle model for the same. | **(6)** | **Apply and evaluate** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | According to you what are the different areas of risk of a mobile device. Explain by taking a suitable example | **(6)** | **Apply and evaluate** |
|  |  |  |  |  |
|  | **(b)** | What are the different risk mitigation strategies? Explain any four with the help of a suitable example. | **(6)** | **Apply and evaluate** |
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|  |  | **UNIT-II (CO2)** |  |  |
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| **Q.3** | **(a)** | What are the different common Android vulnerabilities of a mobile device? Define any three with example | **(6)** | **Remembering and understanding** |
|  |  |  |  |  |
|  | **(b)** | List out the different models required for secure Android Application. Explain anyone with example. | **(6)** | **Understand and apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.4** | **(a)** | Define and explain the different code obfuscation techniques used in mobile communication | **(6)** | **Analysing and evaluating** |
|  |  |  |  |  |
|  | **(b)** | Suppose we want to protect our Android database while data is in transit. How will you do it? Explain. | **(6)** | **understand and analyse** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | A url consists of four components. Name and explain each with example. | **(6)** | **understand and analyze** |
|  |  |  |  |  |
|  | **(b)** | There are so many input validation attacks which could harm the system. List out and explain any three of them with example | **(6)** | **Analyzing and applying** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | Which type of vulnerability may be used by the attackers to bypass the access control? Name and explain by taking a suitable example. | **(6)** | **Analyze and create** |
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|  |  |  |  |  |
|  | **(b)** | Which type of attack could be exploit a web session and control over it. Explain with example. | **(6)** | **Analyze and create** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
|  |  |  |  |  |
| **Q.7** | **(a)** | Which type of mobile malware causes harm to the network of devices and spread to all computers connected? Explain by taking a suitable example. | **(6)** | **Analyze and Evaluate** |
|  |  |  |  |  |
|  | **(b)** | Suppose an attacker gained access to your device and asks money to unlock your device. Which type of malware attack it could be and how it could harm your system. | **(6)** | **Understanding and remembering** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | How can a mobile Phishing attack is dangerous for your device. Explain any three types of mobile phishing attacks among them with the help of a suitable example. | **(6)** | **Understanding and remembering** |
|  |  |  |  |  |
|  | **(b)** | Which type of malware directs the user to a false website? Explain by taking a suitable example | **(6)** | **Analyzing and evaluating** |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
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| **Q.9** | **(a)** | What is the need of MDM. Give any five reasons and explain. | **(6)** | **Remembering and applying** |
|  |  |  |  |  |
|  | **(b)** | Suppose your organisation is providing you a mobile device which you can use as it is your personal one. Which type of device management technique is utilised in this case and how. Explain by taking a suitable example. | **(6)** | **Analyze and apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | A company has two strategies of MDM namely BYOD and CYOD. Differentiate between the two with the help of a suitable example. | **(6)** | **Remembering and applying** |
|  |  |  |  |  |
|  | **(b)** | Suppose a company wants to implement BYOD for its employees. List out the different features of this setup by taking a suitable example | **(6)** | **Remembering and applying** |