0201N1457　　Candidate's Seat No :_____

M.Sc. Sem.-1 Examination
404
Cyber Security & Forensics
January-2024

Time : 2-30 Hours]　　　　　　　　　　　　　　　　　　[Max. Marks : 70

Ques.1 Answer the following questions:
  i.   Explain the process of sandboxing. And give some examples. 7Marks
  ii. Describe android security model with well labelled diagram. 7Marks

  OR

  i.   Explain android security model in detail. 7Marks
  ii. What is codesigning? Also write its advantages and disadvantages. 7Marks

Ques.2 Answer the following questions:
  i.   Describe diva-beta apk. Also explain its architecture. 7Marks
  ii. Explain working of genymotion. Write its advantages and disadvantages. 7Marks

  OR

  i.   Describe any five vulnerabilities of mobile and mitigate them. 7Marks
  ii. What are hardcoding issues? Write its advantages and disadvantages. 7Marks

Ques.3 Answer the following questions:
  i.   Explain the the working of Mobsf. Also write its advantages and disadvantages. 7Marks
  ii. Describe the process of interception from burpsuite. Also write some limitations of burpsuite. 7Marks

  OR

  i.   Explain the process of prevention of data leak. Write some relevant steps to stop data leaking. 7Marks
  ii. Describe the process of prevention of poor authentication & authorization. 7Marks

Ques.4 Answer the following questions:
  i.   What is cryptography? How its if different from encryption. 7Marks
  ii. Differentiate between symmetric and asymmetric cryptography. 7Marks

  OR

  i.   Describe debugging. Write advantages and disadvantages. 7Marks
  ii. Explain owasp top 10 for mobile with mitigation. 7Marks

Ques.5 Attempt any seven out of twelve. 14Marks
  1.   Define pen-testing. Give some examples.
  2.   What is interception?
  3.   Define spoofing. Give some examples.
  4.   Discuss any two types of encryptions.
  5.   Define android versioning system.
  6.   What are rooting devices? Give some examples.
  7.   Define jail break.
  8.   What are repositories? Give some examples.
  9.   Define drozer. Where it is used.
  10. What is code signing? Give some examples.
  11. Define broken cryptography.
  12. What is android manifest?

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