



Faculty of Computers & Artificial Intelligence
2nd Term (2019-2020) Final Exam
Information Security and Digital Forensics Program
Course Code: FCS374 Level: 3rd level
Course name: Computer Security



Benha University
Final Date: 7 / 6 /2020
Total Marks: Pass / Fail
Examiner(s): Dr. Ahmed Taha

Research submission: From 31 May to 7 June 2020

Based on your study in the Computer Security course,

- **A research project is required for each student separately. No student is allowed to participate in the research within a group of students.**

- **The research project must address one of the following topics:**
 - 1. The policy of installing applications to the phones and tables**
 - 2. Security measures in Windows, Unix and MacOS**
 - 3. Encrypting viruses**
 - 4. Loss of data and its restoration**
 - 5. The process of authentication**
 - 6. Data encryption algorithms**
 - 7. The ways of network intrusion and their detection and prevention**
 - 8. The most prominent pandemics of cyber viruses**
 - 9. White hat and black hat hackers: who are they?**
 - 10. Phishing and scam in the Internet**
 - 11. Social networks and digital security**
 - 12. Revenge porn and blackmailing in the Internet**
 - 13. What is firewall and how it helps to protect the network?**
 - 14. Cookies, privacy and cyber security**
 - 15. Identity theft in the Internet**
 - 16. The strategies of password**
 - 17. Device synchronization and protection**
 - 18. Terms and conditions in the software**
 - 19. Digital piracy and security**
 - 20. Laws against cyber crimes**
 - 21. Cyber security while downloading files**
 - 22. Social engineering and its importance**
 - 23. Software updates and patches and their importance**
 - 24. The most well-known closed vulnerabilities**

- 25. The emergency actions after hacking**
- 26. The main causes of cyber crimes**
- 27. Biometrics and cyber security**
- 28. Bots and cyber security**
- 29. The unified user profiles, their advantages and dangers**

- **A research project identifies and defines a specific problem, theme, issue, or question. To conduct research, you will need an idea of what is already known about your topic and what resources/sources are required to meet your project's objectives. To complete your research successfully, you will also need to determine what theories, approaches, methodologies, modes of analysis, or aesthetic standards will enable you to arrive at reliable and insightful results.**
- **The project must cover the major aspects of the selected topic.**
- **A project must represent the student's sole effort; online tutorials or other examples may be consulted, but they must be improved upon and noted in the final documentation. Failure to note and provide links to reference material will be considered cheating.**
- **Academic dishonesty of any kind will not be tolerated**

GOOD LUCK,

Examiner(s)
Dr. Ahmed Taha

Program Coordinator
Dr. Ahmed Taha