

Duration: 1:30h

Name: _____ No.: _____

Course: _____

Each question is worth 0.5 points on a scale of 0 to 20. Each wrong answer is worth -0.15 points.

1 - A phishing email is one which:

- A) Requests a payment for goods you have not received
- B) Offers you products in which you may have no interest
- C) Encourages you to click on a link to a fraudulent website
- D) Contains abusive and threatening language

2 - The principles of information security based on the CIA concept are:

- A) Accountability, Clarity and Intelligence
- B) Authenticity, Creativity and Innovation
- C) Availability, Confidentiality and Integrity
- D) Appreciation, Cooperation and Invention

3 - A computer systems subversion technique that consists of masking IP packets using fake sender addresses is known as:

- A) Spoofing
- B) Sniffing
- C) Spamming
- D) Cybersquatting

4 - Which option below is not a hashing function used for validation checks?

- A) RC4
- B) MD5
- C) SHA-1
- D) CRC32

5 - The process of documenting the seizure of digital evidence and when that evidence changes hands, is known as:

- A) Chain of custody
- B) Field notes
- C) Interim report
- D) None of the above

6 - Generating a plan of action and obtaining supporting resources and materials falls under which step in the digital investigation?

- A) Preparation
- B) System preservation
- C) Evidence searching
- D) Event reconstruction

7 - When you have developed a theory, what can you do to confirm that your hypothesis is correct?

- A) Predict, based on your hypothesis, where artifacts should be located
- B) Perform experiments to test results and rule out alternate explanations
- C) Conclude, based on your findings, whether the evidence supports the hypothesis
- D) All the above

8 - Which option below is not a Linux live CD meant for use as a digital forensics tool?

- A) Paladin
- B) Kali Linux
- C) Ubuntu
- D) Caine

9 - What command was developed by the Department of Defense Computer Forensics Laboratory as an enhanced version of dd?

- A) dc3dd
- B) split
- C) dcfdd
- D) echo

10 - Which of the following artifacts cannot be acquired with FTK Imager?

- A) Protected Registry Files on a Local Machine
- B) Drive's host protected area
- C) Local Machine Memory
- D) Local Machine Pagefile.sys

11 - Which of the following commands creates an alternate data stream?

- A) `echo text > myfile.txt:stream_name`
- B) `ads create myfile.txt(stream_name) "text"`
- C) `cat text myfile.txt=stream_name`
- D) `echo text`

12 - Which of the character encoding systems uses a fixed length for each character?

- A) UTF-8
- B) UTF-16
- C) UTF-32
- D) UTF-8 with BOM

13 - The big-endian representation of 0xFB787A23 is:

- A) 78 FB 23 7A
- B) 7A 23 FB 78
- C) 23 7A 78 FB
- D) FB 78 7A 23

14 - SGVsbG8gV29ybGQ= may be the result of what type of character encoding?

- A) Base64
- B) Base58
- C) Hexadecimal
- D) None of the above

15 - What is Autopsy used for?

- A) Finding deleted data
- B) Extracting data
- C) Analysing extracted data
- D) Creating new data

16 - Which of the following is a valid MAC address?

- A) 192.168.0.5
- B) 00:10:4b:de:fc:e9
- C) 0-0-e2-7a-c3-5b-6f
- D) 08-00-56-s7-fd-d4

17 - FireFox stores potentially notable information in:

- A) DBF format databases
- B) ASCII text files
- C) SQLite databases
- D) Proprietary format files

18 - What term is used to describe a disk's logical structure of platters, tracks, and sectors?

- A) Cylinder
- B) Trigonometry
- C) Geometry
- D) Mapping

19 - A typical disk drive stores how many bytes in a single sector?

- A) 8
- B) 512
- C) 1024
- D) 4096

20 - The storage capacity of a hard drive with 256 heads, 63 sectors, and 1024 cylinders is:

- A) 8455716864 B
- B) 7.875 GB
- C) 15.75 MB
- D) 16515072 B

21 - File slack space is:

- A) The space between the end of a volume and the end of a partition
- B) The sectors in a cluster that are not occupied by the file in that cluster
- C) The space on a disk that is not allocated to files
- D) The space left on a disk after a file is deleted

22 - The standard Windows environment supports all the following file systems EXCEPT _____.

- A) FAT16
- B) ext2
- C) FAT32
- D) NTFS

23 - When using a target drive that is FAT32 formatted, what is the maximum size limitation for copy the files?

- A) 512 MB
- B) 4 GB
- C) 1 TB
- D) 1 PB

24 - The _____ was developed in the mid-1990's by Microsoft to improve FAT in terms of performance and reliability.

- A) New Technology File System
- B) New Transfer File Standard
- C) New Transfer File System
- D) New Technology Format Standard

25 - Which of the following file systems was developed for Mac OS?

- A) HFS
- B) FAT
- C) NTFS
- D) UFS

26 - You find the following deleted file on disk. How many clusters does this file occupy?

REF.DOC Size:19968 Cluster: 275

- A) 200
- B) 78
- C) 39
- D) 21

27 - Which of the following tools does not allow you to acquire memory from the local machine?

- A) FTK Imager
- B) Wimpmem
- C) Autopsy
- D) AVML

28 - Which of the following is NOT an artifact that will be irrevocably lost if the computer is shut down?

- A) Running processes
- B) Opened network ports
- C) Data stored in memory
- D) System date and time

29 - When collecting data from a compromised computer, consideration should be given to collecting the _____ data first.

- A) CMOS
- B) Most volatile
- C) Magnetic
- D) Optical

30 - Which of the following files cannot be parsed by Volatility?

- A) pagefile.sys
- B) hiberfil.sys
- C) windows_memory_dump.dmp
- D) vmware_memory_image.vmem

31 - What choice below best depicts the purpose of the Windows Swap file?

- A) It's used as a memory reserve by the Windows operating system
- B) It helps the computer to boot faster
- C) It's used to show better graphics
- D) It's used to save persistent files

32 - When we talk about an "image" in the context of a mobile forensics' investigation, what are we talking about?

- A) A photo you share on social media
- B) A copy of all the data on a device
- C) A small sample of data from a device
- D) A picture contained on the device

33 - ____ cards are usually found in GSM devices and consist of a microprocessor and internal memory.

- A) SIM
- B) SDD
- C) SD
- D) MMC

34 - The primary reason that brute-force methods are not used when trying to access an SIM card with the PIN set is:

- A) A four-digit PIN represents 10,000 possible combinations
- B) After three failed attempts, the SIM card will become locked
- C) PIN disclosure by the offender can be required by a court order
- D) None of the above

35 - A _____ involves obtaining a judicial authorization or formal explicit or implicit authorization through the delegation of powers.

- A) Closed source of information
- B) Opened source of information
- C) Primary source of information
- D) Secondary source of information

36 - Dark Web can only be access by:

- A) Using a VPN
- B) Using a Proxy
- C) Using a Website Operator
- D) Using Special Software

37 - When moving through the TOR Network what happens to the data?

- A) It is immediately sent to its destination
- B) The data is encrypted once and sent through relays
- C) The data is encrypted every relay
- D) The data is not encrypted when it goes to each relay

38 - Digital evidence is said to be _____ if it was collected, analysed, handled, and stored in a manner that is acceptable by the law, and there is reasonable evidence to prove so.

- A) Legally authentic
- B) Legally admissible
- C) Technically irrefutable
- D) Forensically sound

39 - What is Registry?

- A) A hierarchical database used by every computer to store settings and data
- B) A hierarchical database used by computers running Windows to store settings and data
- C) A relational database used by every computer to store settings and data
- D) A relational database used by computers running Windows to store settings and data

40 - What Registry file contains user account management and security settings?

- A) default.dat
- B) software.dat
- C) SAM.dat
- D) Ntuser.dat

THE END