Digital Forensics

Answer Key

(Correct Answers are marked in bold letters)

Section -A Forensic Aptitude

b) Finland c) Canada d) Czech Republic 2. Which Indian state shares the longest land border with Bhutan? a) Assam b) Sikkim c) Arunachal Pradesh d) West Bengal 3. Which of the following is the longest train route in the world? a) Moscow to Vladivostok b) Toronto to Vancouver c) Shanghai to Lhasa d) Sydney to Perth 4. Identify the southernmost located country amongst these a) Madagascar b) Sri Lanka c) New Zealand d) Fiji 5. India shares its land borders with how many countries. a) 5 b) 7 c) 9 d) 4 6. I will write a letter to you tentatively the dates of the program. a) involving b) urging c) guiding	1.	Which country won the 2019 Ice Hockey World Championship?	
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a) involvingb) urgingc) guiding		d) 4	
a) involvingb) urgingc) guiding	6.	I will write a letter to you tentatively the dates of the program.	
b) urgingc) guiding			
c) guiding		•	
		,	
<i>4)</i>		d) indicating	

7.

2 16 112 672 3360 13440?

- a) 3430
- b) 3340
- c) 40320
- d) 43240
- 8. 40% of 210 is same as one third of?
 - a) 840
 - b) 280
 - c) 252
 - d) 84
- 9. QPO, NML, KJI, _____, EDC
 - a) HGF
 - b) CAB
 - c) JKM
 - d) GHD
- 10. Samantha is your father's mother's grandson's daughter. Therefore, Samantha is your
 - a) niece
 - b) sister
 - c) uncle
 - d) brother
- 11. The microscope which cannot be used for studying living cells is
 - a) Compound microscope
 - b) Electron microscope
 - c) Fluorescence microscope
 - d) Light microscope
- 12. What is the primary purpose of accrediting forensic labs?
 - a) Financial gain
 - b) Legal compliance
 - c) Quality assurance
 - d) Employee satisfaction
- 13. In which country did Sir William Herschel pioneer the use of fingerprints for identification in the 19th century?
 - a) United States
 - b) United Kingdom
 - c) India
 - d) France
- 14. The development of the Automated Fingerprint Identification System (AFIS) has greatly enhanced:
 - a) Bloodstain pattern analysis

- b) Fingerprints
- c) DNA profiling
- d) Toxicological analysis
- 15. The concept of "Every contact leaves a trace" is associated with the work of:
 - a) Calvin Goddard
 - b) Edmond Locard
 - c) Alphonse Bertillon
 - d) Sir William Locard
- 16. Who is "Father of Forensic Entomology"?
 - a) Dr. William Bass
 - b) Dr. Clyde Snow
 - c) Dr. Michael Baden
 - d) Dr. Bernard Green Berg
- 17. Next number in the series 3,6,8,16,18,.....is
 - a) 28
 - b) 36
 - c) 54
 - d) 34
- 18. If today is Wednesday, what would be the day after 121 days
 - a) Wednesday
 - b) Saturday
 - c) Sunday
 - d) Friday
- 19. Which is the correct spelt word
 - a) Capricious
 - b) Cappricious
 - c) Caprisious
 - d) Caprisuos
- 20. During electrophoresis speed of migration of ions depends on:
 - a) Shape and size of molecule
 - b) Magnitude of charge and shape of molecule
 - c) Magnitude of charge, shape and mass of molecule
 - d) Magnitude of charge and mass of molecule
- 21. A bullet from scene of crime is collected by means of
 - a) Forceps
 - b) Tongs
 - c) Gloved hands
 - d) Spatula

- 22. Chelioscopy is study of
 - a) Foot
 - b) Fingers
 - c) Palate
 - d) Lips
- 23. The electromagnetic spectrum's Visible region stretches from:
 - (a) 380-760 nm
 - (b) 500-1mm
 - (c) 165-525 nm
 - (d) 760-1 mm
- 24. Which of the following Microscope uses light as a source of illumination
 - a) SEM
 - b) TEM
 - c) Stereo microscope
 - d) Scanning probe microscope
- 25. What type of evidence includes tangible items such as weapons, clothing, or documents that are directly related to a crime?
 - a) Circumstantial evidence
 - b) Physical evidence
 - c) Testimonial evidence
 - d) Documentary evidence
- 26. A witness testifying about what they personally observed or experienced is providing:
 - a) Circumstantial evidence
 - b) Hearsay evidence
 - c) Testimonial evidence
 - d) Documentary evidence
- 27. Which technique involves casting three-dimensional replicas of footwear impressions found at a crime scene?
 - a) Shoeprint analysis
 - b) Casting
 - c) Electrostatic dust print lifting
 - d) Bloodstain pattern analysis
- 28. What is the primary purpose of creating a crime scene sketch?
 - a) To replace photographs

- b) To provide a visual overview of the crime scene
- c) To identify suspects
- d) To collect physical evidence
- 29. The immediate surroundings of an area where a crime has been committed is referred to as:
 - a) A secondary crime scene
 - b) A primary crime scene
 - c) An auxiliary crime scene
 - d) A contained crime scene
- 30. What is the primary purpose of Crime Scene Photography?
 - a) To document the Investigator's presence
 - b) To create artistic representations of the crime scene
 - c) To provide a visual record of the entire crime scene
 - d) To capture only close-up shots of evidence
- 31. In crime scene reconstruction, what does the term "modus operandi" refer to?
 - a) The suspect's motive
 - b) The method of operation used by the suspect
 - c) The victim's actions at the crime scene
 - d) The legal procedures followed during the investigation
- 32. What does the term "Integrity of the Chain of Custody" refer to?
 - a) Keeping the evidence in pristine condition
 - b) Ensuring a swift transfer of evidence
 - c) Allowing multiple agencies to handle the evidence
 - d) Sharing evidence with the media
- 33. Which organization is responsible for accrediting forensic laboratories in India according to ISO/IEC 17025 standards?
 - a) FSSAI
 - b) NABH
 - c) NABL
 - d) BIS
- 34. To identify the shape of univariate data, what type of graph would be the most useful?
 - a) Histogram
 - b) Scatter plot
 - c) Bar chart
 - d) Pie chart
- 35. What is the purpose of staining in gel electrophoresis?
 - a) To regulate temperature

- b) To enhance electrical conductivity
- c) To visualize separated molecules
- d) To control pH
- 36. Sum of deviations will be zero if it is taken from
 - a) Mean
 - b) Mode
 - c) Medium
 - d) Standard Deviation
- 37. Find the median of the given data set: 5, 8, 12, 17, 2, 14, 6, 8, 13 and 7
 - a) 5
 - b) 2
 - c) 8
 - d) 17
- 38. The reducing action of developing agents for Black & White film
 - a) Potassium Sulphite
 - b) Potassium Bromide
 - c) Sodium Carbonate
 - d) Sodium Thiosulphate
- 39. The Exposure Triangle refer to the three major setting that effect Exposure
 - a) ISO, Aperture, Shutter Speed
 - b) Aperture, Shutter Speed, Focal Length
 - c) Quality of Camera, Aperture, Shutter Speed
 - d) Film, Lens & Colour
- 40. As per Section 8 of the Indian Evidence Act, 1872 which of the following is a relevant fact:
 - a) Motive
 - b) Preparation
 - c) Subsequent Conduct
 - d) All of the above
- 41. Under the PFA Act, when is the food said to be adulterated
 - a) if any ingredient is injurious to health
 - b) if it is obtained from a diseased animal
 - c) if spices are sold without their essence
 - d) all of these
- 42. Coca, hemp and opium are defined under:
 - a) The Narcotic Drugs and Psychotropic Substances Act
 - b) The Pharmacy Act

- c) The Drugs and Cosmetics Act
- d) The Poisons Act
- 43. Which of the following methods is non-destructive technique for ink identification
 - a) Solubility test
 - b) Thin layer chromatography
 - c) UV-Vis spectrophotometer
 - d) Videospectral analysis
- 44. Milk is deficient of which mineral?
 - a) Phosphorus
 - b) Sodium
 - c) Iron
 - d) Potassium
- 45. Preservation of footprint on snow can be done by
 - a) Plaster of Paris Cast
 - b) Sulphur casting
 - c) Tracing
 - d) Wax Casting
- 46. Ridge characteristics can be found in:
 - a) Footprint
 - b) Fingerprints
 - c) Palm prints
 - d) All
- 47. In which section of the CrPC provision for free legal aid is given:
 - a) 314
 - b) 381
 - c) 304
 - d) 334
- 48. The image seen through a compound microscope is
 - a) Virtual
 - b) Real
 - c) False
 - d) Imaginary
- 49. Which of the following is a non-volatile memory?
 - a) RAM
 - b) Hard Disk
 - c) Cache
 - d) ROM

- 50. What is the full form of ALU?
 - a) Arithmetic Logical Unit
 - b) Arithmetic Local Unit
 - c) Arithmetic Logic Unit
 - d) Arithmetic Logic Unity

Section –B Digital Forensics

- 51. Hard disk are organized as
 - a) Cylinders only
 - b) Tracks only
 - c) Cylinders and tracks
 - d) Master Boot Record
- 52. FDISK command is used to?
 - a) Creates partitions on a hard drive
 - b) Does fragmentation on the hard drive
 - c) Fix bad sectors on hard drive
 - d) Recover lost clusters on hard drive
- 53. The platters of a hard disk are coated with
 - a) Magnetic material
 - b) Non-magnetic material
 - c) Polyvinyl coating
 - d) Silica gel
- 54. _____has smallest storage capacity
 - a) Floppy disk
 - b) Zip disk
 - c) Hard disk
 - d) CD
- 55. UDF stands for
 - a) Undated Disk Format
 - b) Universal Data Frequency
 - c) Unique Disk Format
 - d) Universal Disk Format
- 56. What is the main directory of a disk called?
 - a) Folder
 - b) Root
 - c) Sub
 - d) Network
- 57. USB stands for
 - a) Universal Serial Bus

- b) Universal Sequential Bus
- c) Uniform Serial Bus
- d) United Serial Bus
- 58: How many pins does an IDE cable/connector have?
 - a) 36
 - b) **40**
 - c) 42
 - d) 44
- 59. Which of the following is a potential consequence of mishandling digital evidence?
 - a) Legal admissibility
 - b) Data authentication
 - c) Chain of custody violation
 - d) Data replication
- 60. Which of the following is NOT a common digital forensic technique?
 - a) Data obfuscation
 - b) File carving
 - c) Memory analysis
 - d) Hashing
- 61. The area that begins at the end of the last sector that contains logical data and terminates at the end of the cluster is known as:
 - a) File Slack
 - b) HDD Slack
 - c) ROM Slack
 - d) RAM Slack
- 62. In Digital Forensic, Hash/Hashing algorithms are used to:
 - a) Search malicious data
 - b) Verify integrity of copied data
 - c) Detect viruses
 - d) None of the above.
- 63. What is the full form of CDMA:
 - a) Code Division Multiple Access
 - b) Code Division Machine Access
 - c) Cellular Division Multiple Access
 - d) Code Division Multi-user Access
- 64. IMEI of a mobile device means:
 - a) International Mobile Equipment Identity
 - b) International Mobile Evidence Identity

- c) Integrated Mobile Equipment Identity
- d) International Machine Equipment Identity
- 65. Which of the following is NOT a potential challenge in digital forensic investigations?
 - a) Data corruption
 - b) Limited storage capacity
 - c) Rapid technological advancements
 - d) Lack of digital devices
- 66. Cyber Security provides security against what?
 - a) Against Malware
 - b) Against cyber-terrorists
 - c) Defends a device from threat.
 - d) All mentioned options
- 67. Which of the below benefits of cyber security is not true?
 - a) System getting slower
 - b) Computer lagging and crashes
 - c) provide privacy to users
 - d) Secures system against viruses
- 68. The process of documenting the seizure of digital evidence and, in particular, when that Evidence changes hands, is known as:
 - a) Chain of custody
 - b) Field notes
 - c) Interim report
 - d) None of the above
 - 69. Which of the following pertains to network infrastructure security?
 - a) A competitor accesses sensitive information through an unsecured wireless network.
 - b) Builders accidentally cut a network cable while digging.
 - c) A disgruntled employee alters information in a customer database.
 - d) A secretary sends confidential information in a reply to an e-mail that falsely appears to come from her boss.
- 70. What is the name of the IT law that India is having in the Indian legislature?
 - a) India's Technology (IT) Act, 2000
 - b) India's Digital Information Technology (DIT) Act, 2000
 - c) India's Information Technology (IT) Act, 2000
 - d) The Technology Act, 2008
- 71. Which technique is used for data protection?
 - a) Data piracy
 - b) Authentication

- c) Encryption
- d) None of these
- 72. What is true about "bit time"?
 - a) It is the time it takes to encapsulate application data into a bit segment.
 - b) It is the time it takes for a NIC to move a bit from the data link layer to the Layer 1 media.
 - c) IEEE standards require it to be the same on all NICs.
 - d) It is the time it takes for a byte to traverse the copper or fiber cable
- 73. Even with two-factor authentication, users are vulnerable to which attacks.
 - a) Man-in-the-middle
 - b) Cross attack
 - c) Scripting
 - d) Radiant
- 74. Which factor uses in many applications, where two independent factors are used to identify a user?
 - a) Cross-site scripting
 - b) Cross-site request forgery
 - c) Two-factor authentication
 - d) Cross-site scoring scripting
- 75. Which of the below is used to analyse network flow and monitor traffic?
 - a) Managed detection and response
 - b) Cloud access security broker
 - c) Network traffic analysis
 - d) Secondary Storage Media Data Analysis
- 76. The term "protection from _____ of source code" refers to limiting access to the source code to just authorised individuals.
 - a) disclosure
 - b) alteration
 - c) destruction
 - d) log of changes
- 77. ______ refers to phishing performed over smart-phone by calling.
 - a) Algo-based phishing
 - b) Email-based phishing
 - c) Domain Phishing
 - d) Vishing
- 78. ______ are programs or devices that capture the vital information from the target network or particular network.
 - a) Routers
 - b) Trappers

	c) Wireless-crackers
	d) Sniffers
79.	is the attack method for decoding user credentials. Using this technique
	cker can log on as a user & gain access to unauthorized data.
an ana	a) Cache Snooping
	b) Cookie-jacking
	c) Cookie Snooping
	d) Cache-compromising
	a) Cache compromising
80	tracks your data and displays those products as ads for promotions.
	a) Ad-based spyware
	b) System Monitors
	c) Spy-trojans
	d) Tracking cookies
01 V a	vilaggers are form of
81. Ke	y loggers are form of
	a) Spywareb) Shoulder surfing
	c) Trojand) Social engineering
	d) Social eligilicering
82. SN	MP stands for
	a) Simple Network Message Protocol
	b) Simple New Message Protocol
	c) Simple Network Management Protocol
	d) Simple Network Managing Protocol
83. Wh	nich attack allows the attacker to execute the scripts on the victim's browser?
	a) SSL attack
	b) Cookie attack
	c) Banner grabbing
	d) XSS attack
84. A/a	an attack is one of the simplest processes of gaining access to any
04. A/C	password-protected system.
	a) Click jacking
	b) Brute force
	c) Eavesdropping
	d) Waterhole
	a) " accinote
85	are difficult to identify as they keep on changing their type and signature
	a) Non-resident virus
	b) Boot Sector Virus
	c) Polymorphic Virus

	d)	Multipartite Virus
86.		are implemented to carry out distributed DDoS attacks, steal data, send
spa	m mes	sages & permits the hacker to access various devices & its connection.
	a)	Trojan
	b)	Virus
	c)	Botnet
	d)	Worms
87.		of the below is a hacking technique in which cybercriminals create fictitious web
		or domains to deceive or obtain more traffic?
		Pharming
		Mimicking
		Spamming
	d)	Website-Duplication
88.		of the below implemented is not a good means of safeguarding privacy?
	/	Biometric verification
		ID and password-based verification
		2-factor authentication
	d)	switching off the phone
89.	The m	ethod of hiding the secret is:
	a)	Cryptography
	b)	Hashing
	c)	Cartography
	d)	Cryptanalysis
90.	The_is	the message after transformation.
	a)	cipher text
	b)	plain text
	c)	Readable Text
	d)	Writable Text
91.	In an	asymmetric-key cipher, the sender uses thekey.
	a)	private
	b)	public
	c)	either (a) or (b)
	d)	neither (a) nor (b)
92	One c	commonly used public-key cryptography method is thealgorithm.
		RSS
	,	RAS
		RSA
		RAA

93. Hash functions guarantee message integrity and that the message has not been .

- a) Over view
- b) Replaced
- c) Violated
- d) Changed
- 94. SSID is abbreviated as
 - a) Service Set Independent Device
 - b) Service Set Identifier
 - c) Secure Set Independent Device
 - d) Secure Service Identifier
- 95. In networks protocol TCP/ IP stands for.
 - a) Transaction Control Protocol
 - b) Transmission Control Protocol
 - c) Transmission Contribution Protocol
 - d) None of These
- 96. Physical or logical arrangement of network is
 - a) Topology
 - b) Routing
 - c) Networking
 - d) None of the mentioned
- 97. Data communication system spanning states, countries, or the whole world is
 - a) LAN
 - b) WAN
 - c) MAN
 - d) None of the mentioned
- 98. Which of the following is NOT a principle of digital forensic analysis?
 - a) Volatility
 - b) Integrity
 - c) Availability
 - d) Authenticity
- 99. In wireless distribution system
 - a) multiple access points are inter-connected with each other
 - b) there is no access point
 - c) only one access point exists
 - d) none of the mentioned
- 100. In wireless network an extended service set is a set of
 - a) Connected basic service sets

	b)	all stations
	c)	all access points
	d)	none of the mentioned
101.	Mostl	yis used in wireless LAN.
	a)	time division multiplexing
	b)	orthogonal frequency division multiplexing
	c)	space division multiplexing
	d)	none of the mentioned
102.	What	is Wired Equivalent Privacy (WEP)?
	a)	security algorithm for ethernet
	b)	security algorithm for wireless networks
	c)	security algorithm for usb communication
	d)	none of the mentioned
103.	In	same keys are implemented for encrypting as well as
	decry	pting the information.
	a)	Symmetric Key Encryption
	b)	Asymmetric Key Encryption
	c)	Asymmetric Key Decryption
	d)	Hash-based Key Encryption
	D = 0	
104.	DES	stands for
		a) Data Encryption Security
		b) Data Encrypted Standard
		c) Device Encryption Standard d) Data Engryption Standard
		d) Data Encryption Standard
105.	Packe	et filtering firewalls are deployed on
		a) routers
		b) switches
		c) hubs
		d) repeaters
106.		is the process or mechanism used for converting ordinary plain
		t into garbled non-human readable text & vice-versa.
		a) Malware Analysis
		b) Exploit writing
		=

c) Reverse engineering

d) Cryptography

107. Cryptographic algorithms are based on mathematical algorithms where these algori		
	use	for a secure transformation of data.
	a)	secret key
	b)	external programs
	c)	add-ons
	d)	secondary key
108.	What is t	he term used to describe the process of extracting information from digital
	devices v	vithout altering the original data?
	a)	Data replication
	b)	Data extraction
	c)	Data obfuscation
	d)	Data corruption
109.	Which of	f the statements are not true to classify VPN systems?
	a)	Protocols used for tunnelling the traffic
	b)	Whether VPNs are providing site-to-site or remote access connection
	c)	Securing the network from bots and malwares
	d)	Levels of security provided for sending and receiving data privately
110.		masks your IP address.
	a)	Firewall
	b)	Antivirus
	c)	VPN
	d)	Incognito mode
111.		is a type of DoS threats to overload a server as it sends a large number of
		requiring resources for handling & processing.
		Network Layer DoS
	b)	Physical Layer DoS
	c)	Transport Layer DoS
	d)	Application Layer DoS
112.	Which of	f the following is an application of drone?
		Project Monitoring
	b)	Aerial Mapping
	c)	Structural Health Monitoring
	d)	All of the above
113.	_	formation is read or copied by someone not authorized to do so, the result is
	known a	
	,	loss of confidentiality
		loss of integrity
	,	loss of availability
	d)	All of the above

	layer uses data compression to reduce the number of bits to be
smit	ted.
a)	Presentation
b)	Network
c)	data link
d)	application
stan	ds for
a)	Open System Interconnection
b)	Operating System Interface
c)	Optical Service Implementation
d)	None of the mentioned
ber	Crime the attacker leaves multiple traces of their presence in:
a)	File System
b)	Registry
	System Logs
	All of the Above
	is a crime committed when someone uses the internet and other
	ogies to harass or stalk another person online.
a)	Cyber Bullying
b)	Cyber stalking
	Identity Theft
	None
	the term used to describe the act of using social media to engage in romantic or
	elationships with minors?
- 1	Cyberstalking
/ 1	Catfishing
-	Grooming
d)	Sexting
loud	I computing applications suffer from the inherent that is intrinsic in
	AN connectivity.
	Noise
/	Propagation
	Latency
	all of the mentioned
h o	f the following is a potential challenge in authenticating social media evidence?
a) E	Encryption
	Timestamp manipulation
	Content deletion
	Smit A B C C C C C C C C C

d) All of the above

-End of Paper-

