

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION **SEMESTER II SESSION 2017/2018**

COURSE NAME

COMPUTER CRIME AND

DIGITAL FORENSICS

COURSE CODE

: BIS 30803

PROGRAMME CODE : BIS

EXAMINATION DATE : JUNE / JULY 2018

DURATION

: 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF SIX (6) PAGES

	CTION A ruction: Choose the BEST answer for each of the following questions.		
Q1	Forensic analysis procedure should be done on of the digital storage.		
	A. the image B. the original C. the suspicious file D. the remote desktop		
Q2 Which of the following describe non-volatile data?			
	 i. Information lost when the cable is unplugged. ii. Information retain even when cable is unplugged. iii. Current networks connections. iv. System event logs. 		
	A. i, ii and iii B. i and iii C. i, iii and iv D. ii and iv		
Q3	Forensic accounting is the specialty practice area specialized in the following EXCEPT		
	 A. insurance claims B. murder investigation C. personal injury D. royalty audit 		
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Q4	Which of the following statements is FALSE?		

- Cyber war is motivated by military or political dominance. Cybercrime is motivated by economic gain. A.
- B.
- Hacktivism is motivated by ego and personal intention. Cyber terrorism is motivated by political change. C.
- D.

Q5	A we	ell-known commercial software used for forensic analysis is
	A. B. C. D.	SANS Investigative Forensic Toolkit (SIFT) Autopsy Dossier Encase
Q6	Follo	owing are the people involve in forensic accounting EXCEPT forensic accountant
	B. C. D.	forensic auditor forensic analyst investigator auditor
Q7	The e	evidence custodian should
	A. B. C. D.	give the evidence to the secretary place evidence in the storage place keep logs of who has the evidence, when was it check out, etc use the evidence for personal use
Q8	As a gusing	good forensic practice, why it is a good idea to wipe a forensic drive before it?
	A. B. C. D.	To prevent cross-contamination. To make it organized. To differentiate file and operating systems. To follow chain of custody.
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Q9	To ver	rify the original drive with the forensic copy, you use
	A. B. C. D.	hash analysis a password disk to disk verification none of the above

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Q15

lab.

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Q10	is some method of modifying data so that it is meaningless and unreadable.			
	A. Data hiding B. Data Mining C. Encryption D. Digital Watermarking (20 marks)			
SECTION B Instruction: Choose either TRUE or FALSE for each of the following statements.				
Q11	Computer memory files written to the hard drive are called spool files.			
Q12	New Technology File System (NTFS) is the file system for Apple computer.			
Q13	The reason of the existence of probable cause is to allow law enforcement to make an arrest, search or seize without a warrant.			
Q14	For digital evidence, an evidence bag is typically made of anti static material.			

(10 marks)



The American Society of Crime Laboratory Directors/ Laboratory Accreditation

Board (ASCLD) mandates the procedures established for a computer forensics

SECTION C

- Q16 (a) Suggest FIVE (5) crimes that can be committed through computer systems. (10 marks)
 - (b) Propose **THREE** (3) ways to fight the crimes.

(6 marks)

- (c) For more than 50 years, Frye has been used as a standard to determine the admissibility of evidence. In 1973, the congress adopt the Federal Rule Evidence (FRE) standard.
 - (i) Differentiate both standards that may affected the admissibility of digital evidence.

(3 marks)

(ii) Name the decision that make the stand to solve the conflict between Frye and FRE.

(1 mark)

Q17 Consider the following scenario:

Mr. WX worked at Borland International, Inc., a software manufacturer, when he used email to allegedly send trade secrets from his current employer to his new employer. Mr. WX was caught when someone read his email. Besides that, there are a number of suspicious files in his computer. The company try to build a case against him. You are assigned as a team leader of forensic investigation team to serve this purpose.

(a) Outline procedures to be done by the team according to Forensic Investigation Life Cycle (FILC) 6'R Policy.

(20 marks)

- (b) Determine either inculpatory evidence or exculpatory evidence for the following possible cases of Mr. WX:
 - (i) Call log showing Mr. WX contact his new employer before he quit his job.

(2 marks)

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(ii) Global Positioning System (GPS) log file showing Mr. WX was out of country at the time email sent from his computer.

(2 marks)

Q18 Write an algorithm to carve the following files:

(a) JPEG File Interchange Format (JFIF) file.

(3 marks)

(b) Exchangeable Image File Format (Exif) file.

(3 marks)

- END OF QUESTION -

