

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : FUNDAMENTALS OF FORENSIC

SCIENCE

COURSE CODE : DAU10102

PROGRAMME CODE : 1 DAU

TERBUKA

EXAMINATION DATE : JUNE/ JULY 2018

DURATION

: 2 HOURS 30 MINUTES

INSTRUCTION : ANSWER ANY 4 (FOUR) QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1 (a) There are seven S's rules in crime scene investigation. List and explain all. (14 marks)

(b) Chain of custody is an important element in handling evidence. Explain and give the important of this process.

(3 marks)

(c) List and sketch all crime scene search pattern.

(8 marks)

- Q2 (a) A woman was murdered in a small wooden house located in a jungle and 5 km away from road. The almost naked women body was found in the middle of the house. From the first glance of the body show that this is sexual harassment related and murder case. Few item was found in the house and along the pathways that are potentially related to the case. The items that are found in the house are bloody knife, cigarette buds and sprinkle of pink powder. One dirty and wet woman shirt are also found at the river near the house.
 - (i) List **three** (3) physical evidence and **three** (3) trace evidence that may be found at the case location.

(6 marks)

(ii) Explain the appropriate way to package of each evidence.

(6 marks)

(b) (i) Explain about evidence handling safety.

(2 marks)

(ii) List and give the function of each personal protective equipment (PPE) that a forensics personnel should wear to find evidence at an after-burning case location.

(6 marks)

(c) Some PPE are reusable. Give an example of reusable PPE and explain the procedure to decontamination used PPE.

(5 marks)



Q3 (a) (i) Describe forensics entomology. (2 marks) Explain job scope of a forensics entomologist. (ii) (3 marks) (b) Fingerprints are unique and become one of the important evidence in most of the forensics cases. (i) Describe the formation of fingerprints which relate to creation of latern prints on contact surfaces. (3 marks) (ii) Explain the statement below: 'The individual of a fingerprints is not determined by its general shape or patterns'. (2 marks) (iii) List and draw three (3) basic ridge characteristics of fingerprints. (9 marks) (c) Blood Pattern Analysis (BPA) is one of area in forensics case investigation. List six (6) output that can be get from BPA. (6 marks) Identification of drugs may be qualitative or quantitative. Describe the meaning of 04 (a) qualitative or quantitative identification. (4 marks) Explain how the following test is being performed (b) Color Test. (i) (2 marks) (ii) Microcrystalline Test. (4 marks) Thin Layer Chromatography (TLC). (iii) (5 marks) Compare UV-Visible Spectrophotometry, Infrared Spectrophotometry and Mass (c) Spectrometry in terms of result analysis. (10 marks)



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ŲS	(a)	Point	out the limitation of Forensic Analysis of Fire Debris.	(7 marks)	
	(b)	Descr (i)	ribes the following terms Accelerants.		
				(4 marks)	
		(ii)	Incendiary Devices	(2 marks)	
		(iii)	Requirements for combustion	(7 marks)	
	(c)	Comp	pare burning and explosion	(5 marks)	
Q6	(a)	(i)	List six (6) methods that can be used to identify and compare fibers	x (6) methods that can be used to identify and compare fibers (6 marks)	
		(ii)	Describe each methods list in Q6 (a).	(12 marks)	
	(b)	A signature from ten years ago will be different from one today where can be used to fix the date of a document or a forgery. Analysphenomena.			
			P. A.	(2 marks)	
	(c)		Describe two (2) methods used by forensic document examiners.	(5 marks)	



- END OF QUESTIONS -