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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2016/2017**

COURSE NAME : FUNDAMENTALS OF FORENSIC
SCIENCE
COURSE CODE : DAU 10102
PROGRAMME : 2 DAU
EXAMINATION DATE : DECEMBER 2016/ JANUARY 2017
DURATION : 2 HOURS
INSTRUCTION : SECTION A) ANSWER ALL
QUESTIONS
SECTION B) ANSWER TWO (2)
QUESTIONS ONLY

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THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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SECTION A

- Q1**
- (a) Explain **FIVE (5)** reasons why drug addiction is disadvantages for a community. (5 marks)

 - (b) Describe type of following drug in term of function and effect.
 - (i) Depressant. (4 marks)

 - (ii) Stimulants. (4 marks)

 - (iii) Anabolic steroids. (4 marks)

 - (c) Describe how drug can be confirmed using following test.
 - (i) Thin Layer Chromatography (TLC). (4 marks)

 - (ii) Microcrystalline test. (4 marks)
- Q2**
- (a) (i) List **SIX (6)** methods that can be used to identify and compare fibers. (6 marks)

 - (ii) Describe each methods list in Q2 (a)(i). (12 marks)
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- (b) Explain the limitation for fibers identification. (7 marks)

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SECTION B

- Q3** (a) Relate how chemical analysis on forensic drug performed in the laboratory helps law enforcement. (3 marks)
- (b) Compare presumptive tests and confirmatory tests. (6 marks)
- (c) Forensic chemists are routinely required to serve as expert witnesses during criminal procedures for cases in which they have performed confirmatory testing. Recall basic questions about suspect materials will be questioned in the court. (3 marks)
- (d) (i) Define Chain of Custody. (4 marks)
- (ii) Relate **TWO (2)** importance of Chain of Custody. (4 marks)
- (e) Describe destructive testing. (5 marks)
- Q4** (a) Compare burning and explosion. (12 marks)
- (b) Describes the following terms.
- (i) Accelerants. (4 marks)
- (ii) Incendiary Devices. (2 marks)
- (iii) Requirements for combustion. (7 marks)

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- Q5** (a) Explain about fire dynamics. (11 marks)
- (b) Point out the limitation of Forensic Analysis of Fire Debris. (10 marks)
- (c) Distinguish the primary characteristic which differ gun firing and pipe bomb. (4 marks)
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- Q6** (a) Paint is a suspension of pigment in a film former.
- (i) Compare paint chip and paint smears. (4 marks)
- (ii) Explain rule of Color layer analysis. (4 marks)
- (b) (i) Define Questioned Documents. (1 marks)
- (ii) A signature from ten years ago will be different from one today where this fact can be used to fix the date of a document or a forgery. Analyse these phenomena. (3 marks)
- (iii) Discover **TWO (2)** methods used by forensic document examiners. (9 marks)
- (iv) Point out thing that scientific analysis can determine from a question document. (4 marks)

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- END OF QUESTION -