

Enrollment No.....



Faculty of Science
End Sem (Even) Examination May-2022
FS3CO10 Questioned Document
Programme: B.Sc. (FS) Branch/Specialisation: Forensic Science

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which of the following is a non-destructive method of analysis of ink? 1
- (a) Solubility Test
 - (b) Thin Layer Chromatography
 - (c) UV-Vis Spectrophotometer
 - (d) Video Spectral Analysis
- ii. TAPPI stands for- 1
- (a) Technical Association of Power point Imaging
 - (b) Technical Association of Pulp and Paper Industry
 - (c) The Association of Paper and Pulp Industry
 - (d) The Association of Police Protection Ink
- iii. Which of the following is the most acceptable method of analysis of indented writing? 1
- (a) Electrostatic Detection Apparatus
 - (b) Intense Lighting
 - (c) Oblique Lighting
 - (d) Examination with lead of pencil.
- iv. Which of the following is not a function of ESDA? 1
- (a) Visualization of Indented Writing
 - (b) Determination of strokes of writing.
 - (c) To examine torn edges of a document for possible matching.
 - (d) Dating of Ink
- v. The study of writing especially when employed as a means to identify the personality and character of a writer is known as- 1
- (a) Exemplar
 - (b) Slant
 - (c) Graphology
 - (d) Alignment

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- vi. Unusual departure of the line from its indented course is known as- **1**
 (a) Pen Pressure (b) Natural Variation
 (c) Pen Lifts (d) Tremors
- vii. Which of the following is not a cause of natural variations? **1**
 (a) Age (b) Drunken state
 (c) Illness (d) Stature
- viii. Which of the following is not a characteristic of intentional disguise? **1**
 (a) Intentional Misspellings
 (b) Use of unaccustomed hand
 (c) Overwriting of Letters
 (d) Tapering Ends
- ix. Which of the following is a characteristic of genuine signature? **1**
 (a) Pen strokes with blunt ends.
 (b) Evidence of retouching.
 (c) Unnatural Pen lifts
 (d) Pen strokes with tapering ends
- x. The abrasion of the surface of the paper with the help of a rubber erasure or sharp instrument is a type of- **1**
 (a) Physical Erasure
 (b) Chemical Erasure
 (c) Both (a) and (b)
 (d) None of these
- Q.2 i. Define the term Questioned Document. **2**
 ii. Describe any two methods of examination of ink in a document. **3**
 iii. Explain any five types of cases where Questioned Document Examination can be applied. **5**
- OR iv. Write a short note on Paper Analysis and its significance with respect to Questioned Document Examination. **5**
- Q.3 i. Explain the principle of Video Spectral Comparator. **2**
 ii. Explain the working of any two non-destructive tools used for the examination of a questioned document and their scope. **8**
- OR iii. Write a short note on the following: **8**
 (a) UV Visible Spectroscopic Examination of a Questioned Document.
 (b) Photography of a Document

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- Q.4 i. Define the term Natural Variations. Explain its importance in handwriting examination. **3**
 ii. What is disguised writing? What are the different methods adopted for disguising a writing? How is a disguised writing identified? **7**
- OR iii. Write short notes on the following: **7**
 (a) Simon New Comb theory of probability
 (b) Physiology of Handwriting
- Q.5 i. Write a note on development of individuality of handwriting. **4**
 ii. Explain the different class characteristics of handwriting. **6**
- OR iii. Describe different individual characteristics of handwriting. **6**
- Q.6 Attempt any two:
 i. Define forgery. Explain different types of forgery. **5**
 ii. What are indentations? How are indented writings examined? **5**
 iii. What are alterations in a document? Explain any four types of alterations made in a document and how can they be examined? **5**

Marking Scheme

FS3CO10 Questioned Document

Q.1	i.	Which of the following is a non-destructive method of analysis of ink?	1
		(d) Video Spectral Analysis	
	ii.	TAPPI stands for-	1
		(b) Technical Association of Pulp and Paper Industry	
	iii.	Which of the following is the most acceptable method of analysis of indented writing?	1
		(a) Electrostatic Detection Apparatus	
	iv.	Which of the following is not a function of ESDA?	1
		(d) Dating of Ink	
	v.	The study of writing especially when employed as a means to identify the personality and character of a writer is known as-	1
		(c) Graphology	
	vi.	Unusual departure of the line from its indented course is known as-	1
		(d) Tremors	
	vii.	Which of the following is not a cause of natural variations?	1
		(d) Stature	
	viii.	Which of the following is not a characteristic of intentional disguise?	1
		(d) Tapering Ends	
	ix.	Which of the following is a characteristic of genuine signature?	1
		(d) Pen strokes with tapering ends	
	x.	The abrasion of the surface of the paper with the help of a rubber erasure or sharp instrument is a type of-	1
		(a) Physical Erasure	
Q.2	i.	Definition of Questioned Document.	2
	ii.	Any two methods	(1.5 marks * 2) 3
	iii.	Any five types of cases	(1 mark * 5) 5
OR	iv.	Five characters	3 marks 5
		Its significance	2 marks
Q.3	i.	Principle of Video Spectral Comparator	2
	ii.	Any two non-destructive tools with principles	(2 marks * 2) 8
		Forensic impact of each tool	(2 marks * 2)

OR	iii.	Write a short note on the following:	8
		(a) UV Visible Spectroscopic Examination	
		As per explanation	4 marks
		(b) Importance of photography	
		As per explanation	4 marks
Q.4	i.	Definition of Natural Variations	1 mark 3
		Its importance	2 marks
	ii.	Definition of disguised writing	1 mark 7
		Different methods	4 marks
		Identification	2 marks
OR	iii.	Write short notes on the following:	7
		(a) Simon New Comb theory	3 marks
		Example	0.5 mark
		(b) Physiology of Handwriting	3 marks
		Example	0.5 mark
Q.5	i.	Note on development of individuality of handwriting	4
		Any four point	(1 mark * 4)
	ii.	Definition of Class characteristics with example	2 marks 6
		Class characteristics with description	4 marks
OR	iii.	Definition of Individual characteristics	2 marks 6
		Individual characteristics	4 marks
Q.6		Attempt any two:	
	i.	Definition of forgery	1 marks 5
		Types with examples	4 marks
	ii.	Definition of indentations	1 marks 5
		Mode of examination	4 marks
	iii.	Definition of alterations	1 marks 5
		Types of alterations with description	2 marks
		Mode of examination	2 marks
