



Faculty of Science

End Semester Examination May 2025

FS3CO10 Questioned Document

Programme	:	B. Sc. (Hons.)	Branch/Specialisation	:	FS
Duration	:	3 hours	Maximum Marks	:	60

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.

Section 1 (Answer all question(s))					Marks	CO	BL
Q1.	Which instrument is used to analyze the composition of ink on a questioned document?				1	1	1
	<input checked="" type="radio"/> Spectrometer		<input type="radio"/> Microscope				
	<input type="radio"/> Electrostatic detection apparatus		<input type="radio"/> Photography				
Q2.	Which of the following is a classification of documents?				1	1	1
	<input type="radio"/> Paper, ink, and pen		<input type="radio"/> Plain, cipher and printed				
	<input type="radio"/> Original, fake, and forged		<input checked="" type="radio"/> Personal, legal, and business				
Q3.	Which of the following alterations in documents refers to the removal of written content?				1	2	1
	<input type="radio"/> Additions		<input checked="" type="radio"/> Erasures				
	<input type="radio"/> Overwriting		<input type="radio"/> Indented writing				
Q4.	What is the most common method for detecting invisible or indented writings in questioned documents?				1	2	1
	<input type="radio"/> UV light		<input type="radio"/> Infrared spectroscopy				
	<input checked="" type="radio"/> Electrostatic detection		<input type="radio"/> Visual comparison				
Q5.	Which tool is commonly used for the preliminary examination of questioned documents?				1	3	1
	<input type="radio"/> Ultraviolet light		<input checked="" type="radio"/> Photography				
	<input type="radio"/> Infrared spectroscopy		<input type="radio"/> Electrostatic detection apparatus				
Q6.	What is the primary purpose of using ultraviolet light in the examination of questioned documents?				1	3	1
	<input type="radio"/> To reveal alterations in ink		<input checked="" type="radio"/> To detect invisible writings				
	<input type="radio"/> To examine paper texture		<input type="radio"/> To analyze handwriting				
Q7.	Which theory is used to analyze handwriting in forensic investigations?				1	4	1
	<input type="radio"/> Newton's Theory		<input checked="" type="radio"/> Simon Newcomb's Theory of Probability				
	<input type="radio"/> Darwin's Theory of Evolution		<input type="radio"/> Einstein's Theory of Relativity				
Q8.	Which of the following factors does NOT affect the development of an individual's handwriting?				1	4	1
	<input type="radio"/> Psychological state		<input type="radio"/> Physiological condition				
	<input type="radio"/> Educational background		<input checked="" type="radio"/> Ink used				
Q9.	t- crossbar and i-dot are known as:				1	5	1
	<input type="radio"/> Buckle signs		<input type="radio"/> Ascenders				
	<input type="radio"/> Eyelets		<input checked="" type="radio"/> Diacritic signs				
Q10.	Who was appointed as the first GEQD Expert in India?				1	5	1
	<input checked="" type="radio"/> Mr. CR Hardless		<input type="radio"/> Mr. Hem Chandra Bose				
	<input type="radio"/> Mr. Albert S. Osborn		<input type="radio"/> Mr. William Herschel				

Section 2 (Answer all question(s))

Marks CO BL

Q11. Define "questioned documents" and explain the scope of forensic document examination. How do questioned documents play a role in legal investigations? 3 1 2

Rubric	Marks
define	1
scope	1
role	1

Q12. (a) Discuss the different types of questioned documents and their forensic significance. 7 1 1

Rubric	Marks
Types of questioned documents 5 marks, forensic significance 2 marks	7

(OR)

(b) What is the significance of writing instruments, ink, and paper in the examination of questioned documents?

Rubric	Marks
writing instruments 3 marks, ink 2 marks, paper 2 marks.	7

Section 3 (Answer any 2 question(s))

Marks CO BL

Q13. Discuss the different types of document forgeries. How can alterations such as overwriting, erasure, and additions be detected? 5 2 3

Rubric	Marks
Types of document forgeries	2
Detection methods for overwriting, erasure, and addition	3

Q14. Describe the process of detecting erasures in questioned documents. How do forensic experts use modern techniques such as infrared light to identify erasures? 5 2 1

Rubric	Marks
Erase definition 1 mark, types 2marks, examination 2 marks.	5

Q15. Explain how the examination of counterfeit currency and passports is carried out. 5 2 1

Rubric	Marks
Counterfeit currency 2.5 marks, passport 2.5 marks.	5

Section 4 (Answer all question(s))

Marks CO BL

Q16. What is the purpose of using an Electrostatic Detection Apparatus (ESDA) in forensic document examination? How does it assist in identifying altered documents? 3 3 3

Rubric	Marks
Principle and working 2marks, purpose 1 mark.	3

- Q17. (a)** Explain the importance of paper analysis in forensic document examination. How do experts use tools like microscopes and chemical analysis to identify the type of paper used in a document. How can this help in detecting forgery?

7 3 4

Rubric	Marks
paper examination 5 marks, importance 2 marks	7

(OR)

- (b)** Describe the process of examining ink in forensic document analysis. How do methods like chromatography and spectroscopy assist in determining the authenticity of documents and detecting alterations or forgeries?

Rubric	Marks
examination of ink	5
importance	2

Section 5 (Answer all question(s))

Marks CO BL

- Q18.** Comment upon physiology and development of handwriting.

4 4 1

Rubric	Marks
Physiology of handwriting	2
development of handwriting	2

- Q19. (a)** What is disguised writing? How do we differentiate disguised writing from genuine writing?

6 4 1

Rubric	Marks
disguised writing; 2 marks, difference 4 marks	6

(OR)

- (b)** Describe any 5 Indian vernacular languages and their script.

Rubric	Marks
1 mark for each language and 1 mark for importance	6

Section 6 (Answer any 2 question(s))

Marks CO BL

- Q20.** Describe class and individual characteristics in handwriting.

5 5 1

Rubric	Marks
Class characteristics	2.5
Individual characteristics	2.5

- Q21.** What are natural variations? Explain its forensic significance.

5 5 2

Rubric	Marks
define	2
forensic significance	3

Q22. Explain the examination and reporting of questioned documents.

5 5 2

Rubric	Marks
examination	2.5
report writing	2.5
