

**THIRD SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION  
NOVEMBER 2021**

(CBCSS)

Forensic Science

FSC 3E 15—QUESTIONED DOCUMENTS AND FORENSIC ACCOUNTING

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend all questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *The instruction if any, to attend a minimum number of questions from each sub section / sub part / sub division may be ignored.*
4. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Part A**

I. Answer any *four* of the following questions Each question carries 2 weightage :

- (a) How to identify writer of anonymous letters ?
- (b) Explain process of examination of seal.
- (c) Explain examination of indented writings.
- (d) Define money laundering.
- (e) Describe disguise writing.
- (f) Explain process of comparison of documents.
- (g) Write characteristics of a genuine document.

(4 × 2 = 8 weightage)

**Part B**

II. Answer any *four* of the following Short Answer questions. Each question carries 3 weightage :

- (a) Write a short note on examination of computer printouts.
- (b) Describe Fraud deterrence.

**Turn over**

- (c) Explain the types of Forgery.
- (d) Describe the basics of handwriting identification.
- (e) Explain the process of determination of age of document.
- (f) Explain forensic accounting.
- (g) Write a short note on secret writing.

(4 × 3 = 12 weightage)

### Part C

III. Answer any *two* questions. Long Essay Type Questions. Each question carries 5 weightage :

- (a) Describe in detail the importance of Forensic linguistics and stylistics in writer identification.
- (b) Describe the litigation processess. Explain the steps in examination of financial documents.
- (c) Describe the examination of various alterations in written documents.
- (d) Describe the different types of documents with a brief note on genuine and forged documents.

(2 × 5 = 10 weightage)

**THIRD SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION  
NOVEMBER 2021**

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Forensic Science

FSC 3C 14—CRIME SCENE MANAGEMENT

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

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**Part A**

- I. Answer any *four* of the following questions :
- a) What do you mean by an Expert Witness.
  - b) Describe the Constitutional validity of Forensic Evidence.
  - c) Describe altered bloodstain patterns.
  - d) Explain role of logic in CSR.
  - e) Explain macro photography.
  - f) What is photogrammetry ?
  - g) Describe the types of camera lenses.

(4 × 2 = 8 weightage)

**Part B**

- II. Answer any *four* of the following Short Answer questions :
- a) Write a short report on crime scene visit.
  - b) Use of 3-D scanning technique in crime scene.

**Turn over**

- c) Explain logistic management of crime scene.
- d) Describe Correlation of crime scene analysis with behavioural analysis.
- e) Explain the importance of Digital aids in documentation and reconstruction.
- f) Describe the UV and IR photography.
- g) Describe the safety measures for evidence collection.

(4 × 3 = 12 weightage)

### Part C

III. Answer any *two* Long Essay Type Questions :

- a) Describe in detail documentation process of a crime scene.
- b) Explain the technology innovation in crime scene management.
- c) Explain the evaluation and importance of bloodstain evidences.
- d) Explain the basic concepts of videography with a note on high speed videography.

(2 × 5 = 10 weightage)

**THIRD SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION  
NOVEMBER 2021**

(CBCSS)

Forensic Science

FSC 3C 13—DIGITAL AND CYBER FORENSICS

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

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**Part A**

- I. Answer any *four* of the following questions :
- a) List out the output devices.
  - b) What is the difference between PDA and smartphone ?
  - c) What are the tools used in analysis of forensic image ?
  - d) What is hashing in digital evidence ?
  - e) List out any four operating systems used in smartphones.
  - f) What is Denial-of-service attack ?
  - g) What is a cache in a web browser ?

(4 × 2 = 8 weightage)

**Turn over**

**Part B (Short Answer Questions)**

II. Answer any *four* of the following questions :

- a) How is digital evidence collected from mobile phones ?
- b) What is a file system ? Explain its types.
- c) How is digital evidence collected and preserved ?
- d) What is hypervisor and how is it used in cyber forensics ?
- e) Write the key difference between OSI and TCP /IP.
- f) Write the key difference between SSD and HDD.
- g) What are the different types of email protocols ?

(4 × 3 = 12 weightage)

**Part C (Long Essay Type Questions)**

III. Answer any *two* questions :

- a) Discuss different types of computer- facilitated crimes.
- b) What is BIOS ? Explain its functions.
- c) Explain live packet capturing.
- d) Explain the techniques used in E-mail forensic investigation.

(2 × 5 = 10 weightage)

**THIRD SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION  
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Forensic Science

FSC 3E 16—FORENSIC DERMATOGLYPHICS

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

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**Part A**

I. Answer any *four* of the following questions :

- a). What is a ridge trace ?
- b) What are retread tires ?
- c) Define Poroscopy.
- d) How are lip prints useful in crime detection ?
- e) What is a tread wear indicator ?
- f) Name any two footwear databases which are used in forensics.
- g) What are the limitations of ear print analysis ?

(4 × 2 = 8 weightage)

**Part B**

II. Answer any *four* of the following. Short Answer questions :

- a) What is the difference between original equipment tires and replacement tires?
- b) List out different types of bite marks observed in crimes.

**Turn over**

- c) Explain iodine fuming method for development of fingerprints.
- d) What information is on the tire sidewall ?
- e) What is the information obtained from footwear prints ?
- f) Name the different types of lip prints.
- g) Describe a case where the criminal was caught with the help of footwear evidence.

(4 × 3 = 12 weightage)

### Part C

III. Answer any *two*. Long Essay Type Questions :

- a) How footwear evidence is recorded ?
- b) Explain tire tread examination.
- c) Discuss the recent advancements in fingerprinting.
- d) How are lip prints processed and developed ?

(2 × 5 = 10 weightage)