



D-003-001657

Seat No. _____

**B. Sc. Forensic Science (CBCS) (Sem. VI)
Examination**

April / May - 2015

FS - 601 : Fingerprints & Question Documents

Faculty Code : 003

Subject Code : 001657

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :**(1) This question paper contains three questions.
All are compulsory.
- (2) Draw neat and labelled diagrams wherever necessary.
- (3) Figures to the right indicate marks.

1 Mark Questions-Multiple Choice : 20

- (1) Ten digit classification system of finger print is credited to,
(A) Vucetich (C) Both (A) & (B)
(B) E.R. Henry (D) Francis Galton
- (2) ESDA stands for.....
(A) Electrical Standard Detection Apparatus
(B) Electronic Standard Detection Application
(C) Electrostatic Detection Apparatus
(D) None of above
- (3) Face can lie, fingerprint
(A) Can also lie (C) Can multiply
(B) Never (D) Can change

- (4) Which of these is not a type of whorl ?
- (A) Spiral (C) Double spiral
(B) Almond (D) Tented
- (5) To establish absolute identity between two finger prints,
- (A) 3 points are enough
(B) 1 point is enough
(C) Minimum 8 points in sequence
(D) Maximum 10 points in sequence
- (6) Cyanoacrylate fuming process develops print in.....
- (A) Brown colour (C) White colour
(B) Violet colour (D) Red colour
- (7) is known as Burglar's visiting card.
- (A) F.I. Slips (C) Chance print
(B) Crime scene (D) Foot print
- (8) Super glue fuming technique is called
- (A) Cyano acrylate (C) Powder method
(B) Iodine (D) AgNO₃
- (9) Arches,
- (A) May have appearance of delta and core
(B) Have delta and core
(C) Have only core
(D) Have only delta

- (10) Carbon deposits around the signature indicates
- (A) Simulated forgery (C) Scanning
(B) Traced forgery (D) None of these
- (11) What is disguise ?
- (A) Conscious attempt to change
(B) Unconscious attempt to change
(C) Copying
(D) Tracing
- (12) Cast of the foot print on the show can be prepared by,
- (A) Sulphur (C) Cellulose acetate
(B) Plaster of paris (D) Wat
- (13) Which of these can be considered as document surface ?
- (A) Cloth (C) Leather
(B) Jute bag (D) All
- (14) Obliterations can be defined as
- (A) Removing writing with mechanical
(B) Erasing writing with chemical means
(C) Covering the writing with other ink
(D) None of above
- (15) In both the thumbs if ridge count is in between 1-18 in loop pattern it is.....
- (A) Inner (C) Outer
(B) Meeting (D) None

- (16) If one whole hand is missing then for classification,
- (A) Digits of opposite hands are considered
 - (B) No classification done
 - (C) Only one hand classification done
 - (D) All digits are considered whorls
- (17) Fingerprints are all of these except.....
- (A) Permanent
 - (B) Persistent
 - (C) Mutable
 - (D) Individual
- (18) VSC stands for
- (A) Visual spectro comparison
 - (B) Video specific combination
 - (C) Video spectral comparison
 - (D) Visual specific combination
- (19) When ink is missing from a portion of continuous line it is called....
- (A) Hiatus
 - (B) Spur
 - (C) Folds
 - (D) Wedge
- (20) Ninhydrin reacts with _____ of sweet to give violet colour pring.
- (A) Amino acid
 - (B) Fat molecules
 - (C) Salts
 - (D) Organic matter

2 Give the answers of following questions as per instruction :

(A) Write any **three** out of six

6

- (1) Classify fingerprint pattern.
- (2) Why plain prints and rolled prints both are taken?
- (3) What is the necessity to obtain plain prints?
- (4) Define : Whorls and give it types.
- (5) Why "I" figure is added in numerator and denominator in 1° classification ?
- (6) Primary classification of

W	W	\	\	\
\	W	W	W	W

(B) Write any three out of six :

9

- (1) Describe composite fingerprint pattern.
- (2) Explain fuming techniques for fingerprint development.
- (3) Explain ridge characteristics.
- (4) What is ridge tracing ? Rules to be followed in Ridge tracing.
- (5) Give the condition of inner and outer ridge count for loop pattern.
- (6) Give Henry classification of

\21	\8	\10	W 1	\12
16/	12/	8/	6/	10/

(C) Write any **two** out of five : 10

- (1) Describe Henry's ten digit classification.
- (2) Write a note on different patterns of fingerprints.
- (3) Give history of fingerprint.
- (4) Which features make fingerprint an important evidence?
- (5) Explain AFIS.

3 Give the answers of following questions as per instruction :

(A) Write any **three** out of six : 6

- (1) Define "Questioned Document" and why writing is called "Brain Writing"?
- (2) What are class and individual characteristics in hand writing?
- (3) Classify the documents.
- (4) Define : Admitted writing and holograph.
- (5) How will you detect mechanical and chemical erasures?
- (6) How will you decipher and preserve writing on charred documents?

(B) Write any **three** out of six : 9

- (1) Explain : (1) Natural handwriting specimen.
(2) Request Handwriting Specimen.
- (2) Care and handling of question documents.
- (3) What are the Security features of Indian passport?
- (4) Write a note on Age of documents?
- (5) What are handwriting principles? Explain.
- (6) Care and handling of question document.

(C) Write any **two** out of five :

10

- (1) Explain types of signature forgeries.
 - (2) Explain pen pressure, pen position, retouching, speed in handwriting.
 - (3) Write a note on individual characters of hand writing.
 - (4) Describe security features of Indian currency notes.
 - (5) Write a note on addition, alterations and obliterations.
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