



MAL-003-001657 Seat No. _____

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

March / April - 2018

FS - 601 : Fingerprint & Questioned 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 labeled diagrams wherever necessary.
(3) Figures to the right indicate marks.

1 Give the answers of following questions : **20**

- (1) Ten digit classification system of finger print is credited to _____ scientist.
- (2) Major glands responsible for secretion of sweat.
- (3) Ninhydrin develops latent finger print by reaction with which component of sweat?
- (4) Define Boundary lines
- (5) Define hiatus
- (6) Loop without ridge count is _____
- (7) Tented arch is not a type of whorl. True or False ?
- (8) How many pigeon holes are there?
- (9) Primary classification of

/	/	/	/	/
/	/	/	/	/

- (10) Ridge count in index of loop pattern between 1-9, it is Inner, Outer or Meeting?
- (11) Factors to be consider while selecting the powder.

- (12) Characteristics of fingerprint.
- (13) In Indian the 1st government examines of Q. D. Laboratory was established in _____
- (14) Define Obliteration.
- (15) The book entitled "Questioned document" is written by whom?
- (16) Writing on burnt document can be restored by photography under _____ light.
- (17) ESDA stands for _____
- (18) Which are the sign of forgery?
- (19) Copy prepared by super imposing the document is which type of forgery?
- (20) There is never natural variation in genuine writing. True or False?

2 Give the answers of following questions as per instruction :

(A) Write any **three** :

6

- (1) Give silver nitrate method for fingerprint development.
- (2) What is the contribution of Francis Galton in the development of fingerprint science?
- (3) What are the fixed points in fingerprint pattern ? Draw and explain.
- (4) Why plain prints and rolled prints are taken?
- (5) Primary classification of

W	W	\	\	\
/	W	W	W	W

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

9

- (1) Define loop and give the condition of inner and outer ridge count for loop pattern.
- (2) Draw the probability chart for 3 worlds.
- (3) Define core and delta and mention it in loop and whorl with figure.
- (4) Classify chance prints.
- (5) Define ridge characteristics and give example of it.
- (6) Searching, lifting and preservation of fingerprint.

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

- (1) Write a note on fingerprint patterns.
- (2) Explain AFIS.
- (3) Explain fingerprint classification formula of sir E.R. Henry.
- (4) Do classification of

W	L10	L14	L17	W
W	WI	WI	WI	WI

- (5) Sweat composition and sweat glands

3 Give the answers of following questions as per instruction :

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

- (1) Define " Document " according to IEA
- (2) What are Braille marks? Point up with notes of different denominations.
- (3) What are class and individual characteristic in handwriting?
- (4) What do you mean by Slant of writings?
- (5) Explain Natural Variation in handwriting?
- (6) Methods of artificial ageing of document

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

- (1) Process of development of handwriting and describe the reasons behind Natural Variations in handwriting.
- (2) Which basic tools are needed for forensic document examination and give their uses.
- (3) What are the Security features of currency note?
- (4) Define document, question document and nature of problems related to question document.
- (5) Care and handling of document during forensic analysis.
- (6) What are handwriting principles? Explain.

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

10

- (1) Write note on "Disguised Writing".
 - (2) Primary examination of hand writing.
 - (3) Elaborate different types of forgeries.
 - (4) Write a note on tampering of document
 - (5) What are the Security features of passport?
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