

ALL INDIA BOARD EXAMINATION FOR F.P. EXPERTS - 2011

Time Allowed: 3 Hrs.

Dated: 26.11.2011

Max Marks : 100

Pass Marks : 60

N.B.

- **Answers should be brief and to the point**
- **Answers may be given in Hindi / English**
- **Each question carries 10 marks.**

Q.1 Fill in the blanks

- a) The hairy lines in an impression without sweat pores are known as_____
- b) The ridges found in the fingers and palms are known as_____or_____ridges.
- c) _____is the term applied to the study of pores structure as a means of identification.
- d) The system immediately used for the identification of criminals before the fingerprint system started was called_____
- e) Ninhydrin Solution reacts with the_____
- f) Chance finger prints developed by Anthracene powder are photographed with the help of_____
- g) Contents of sweat are_____
- h) A gap caused in a ridge by some foreign matter is called_____
- i). Fingerprint evidence is_____
- j) The colour of the ridges on spraying Leuco- Malchite green is_____

(1x10)

Q. 2 State True or False

- (i) Central pocket loop is the three types of the loop patterns.
- (ii) Palm prints are not admissible evidence.
- (iii) Ridge pattern on finger of a child are not formed before birth.
- (iv) Identity of fingerprints cannot be established without core and delta.
- (v) Dactylography and the study of fingerprints science for the purpose of identification are same.
- (vi) Fingerprints of twins are same.
- (vii) With advancement of age finger prints also change.
- (viii) Finger impressions of male and female can be distinguished.
- (ix) One single point is enough to establish the non-identity between the two prints.
- (x) Creases are not considered in finger print identification.

(1X10)

P.T.O

Q. 3 . How will you develop chance prints on the following articles?

- (a) Polished wooden table with layer of fine dust.
- (b) A Godrej steel almirah painted olive green.
- (c) A partially burnt and melted wax candle.
- (d) A polished multi-coloured metal box of sweets.
- (e) On black paper.
- (f) Blood stain sword.
- (g) Enamel plate.
- (h) A piece of soap.
- (i). A black colour glazed tile.
- (J) On mirror.

(1X10)

Q.4 Criticize the following formula taking primary as correct.

a) $\frac{23}{27} \quad \frac{aWt-r}{Utar}$ **(5)**

b). Describe Ridge characteristics with diagrams. **(5)**

Q. 5 Find the primary classification formula for Record & Search.

Right Thumb	Right index	Right Middle	Right Ring	Right Little
Missing	loop	Missing	Missing	Whorl
Left Thumb	Left index	Left Middle	Left Ring	Left Little
Missing	Missing	Whorl	Whorl	Loop

(10)

Q. 6 Write in brief the contribution of the following in finger print science (any two)

- (a) Sir William Herschel
- (b) Sir E.R. Henry
- (c) Sir Francis Galton
- (d) Aziz-ul- Haque

(5X2)

Q.7 Write short notes on (Any four)

- (i) Ideal finger print powder
- (ii) Burglar's visiting card
- (iii) Will West and William West Case
- (iv) Platform Ridge
- (v) Oddities
- (vi) Historic Contract
- (vii) Live scanner
- (viii) Accidental pattern

(2 1/2 X4)

Q.8 Answer the following

- (i) What legal action can be taken by police officer for taking the fingerprints of an accused who refuses to give his/her fingerprints? **1**
- (ii) Under what provisions of law, Director of a finger print bureau can depute another fingerprint expert on his behalf for giving evidence before the court? **1**
- (iii) What are the two principles of finger print science? **2**
- (iv) What are the applications of finger prints? **3**
- (v) Define delta. How many kinds of deltas are there. Describe them with diagrams **3**

Q. 9 How will you record finger prints of the following :-

- (a) A highly decomposed dead body **(5)**
- (b) What are the usual defects found in a ten digit fingerprint slip received in the Bureau for record/search? Suggest suitable remedies to avoid these defects. **(5)**

- Q.10** (a) What are the defects found in a forged print? **(5)**
(b) What are the advantages of Automated Finger Print Identification System (AFIS)? **(5)**