

**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.**

<b>Right Thumb</b>	<b>Right index</b>	<b>Right Middle</b>	<b>Right Ring</b>	<b>Right Little</b>
Missing	loop	Missing	Missing	Whorl
<b>Left Thumb</b>	<b>Left index</b>	<b>Left Middle</b>	<b>Left Ring</b>	<b>Left Little</b>
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)**