Ph.D. Entrance Test – 2015 Subject: Forensic Science and Criminology Paper – I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words		
O.M.R. Ansv	wer Sheet Serial No.			
Signature of Car	ndidate	Signature of Invigilator:		
Time: 60 Minutes Number of Que		estions: 50 Maximum Marks	: 50	

INSTRUCTIONS:

 Write your Roll No. on the Questions Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO.

- Enter the Question Booklet Serial No. on the OMR Answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains \$0 Questions, In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of Test.
- Each question has four alternative answer (A,B,C,D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Auswer Shoet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Booklet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the question given in the Question Booklet.
- 8. If you want to change an already marked answer, crase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
- In no case the Answer Sheet, the Question Booklet, or its part or any material copied/noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistant or found giving or receiving assistant or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Communication equipment such as mobile phones, pager, wireless set, scanner, camera or any electronic/digital gadget etc., is not permitted inside the examination hall. Use of calculators is not allowed.
- 15. The candidates will not be allowed to leave the Examination Hall/Room before the expiry of the allotted time.

1.	Which is related with shotgu	in alone:		
	A) Gun Powder	B) Primer	C) Projectile	D) Wads
2.	A computer database conta scenes or test fired from seiz	ining images of bulle ed firearms is known	ets and cartridge case by the acronym:	s recovered from
	A) SWGGUN	B) NIBIN	C) GRC	D) IAFIS
3.	Chemically crased writing c	an be restored by treat	ment with:	
	A) Hydrochloric Acid C) Reflected Light		B) Polarised Light D) Thiocyanic Acid	r stall and
4.	Which of the following wou	ld not be an illicit dru	g:	
	A) Aspirin	B) Cocaine	C) Cannabinoids	D) Heroin
5.	Drug used for narco Analys	is is		
	A) Sodium narcole		B) Sodium Amylat	*
	C) Sodium Pentothal		D) Scopalamine	
6.	Currency note paper has see	urity feature such as:		
	A) Intaglio	B) OVI	C) Security thread	D) Watermark
7.	Starch impregnated with sale	iva gives		
	A) Black appearance		B) Blue appearance	
	C) Brown appearance		C) Red appearance	
8.	Which chemical is used as a	anticoagulant for blood	d	
	A) EDTA	B) Citrate	C) Oxalate	D) Fluoride
9.	Hair become loose after			
	A) 48 hrs of death		B) 72 hrs of death	
	C) 90 hrs of death		D) 3 months of dea	nth
10). Last to putrefy in male is			
	A) Ureter	B) Prostate	C) Testes	D) Liver
13	1. Compound air is used to fir	e e		
	A) Automatic Pistol	B) Revolver	C) Air rifle	D) Shotgun
1	2. Death in fresh water in con	parison to salt water i	s	
	A) Late	patrocayan = 1/5/5 = 1	B) No difference	
	() Insignificant differe	nec	D) Earlier	

13. Haemormagic spo	is are found in poisoning by			
A) Arsenic		B) Organophospho	orus	
C) Thallium		D) Atropine		
C) 11111111111		T. 8. 10 th (* 1707)		
1432 CAL is equiva	lent to			
A) 6mm	B) 5mm	C) 9mm	D) 8mm	
15. A blood stain of 1	mm² in area contains approx	imately DNA content		
A) 20 ngm	B) 2 ngm	C) 100 ngm	D) 200 ngm	
16. Pyro-electric Tran	sducer used in FTIR is			
A) Mercury C	admium Telluride	B) Tryglycine Sul-	phate	
C) Cadmium S		D) Tryglycine Telluride		
17. If one strand of the base sequence on	e DNA molecule has the bas the other stand	c sequence 5'-AAGG3',	what would be the	
A) 3-GCAT-5	B) 3'-AAGG-5'	C) 3'-TTCC-5'	D) 3'-CCTT-5'	
18. An example of no	n-pyrolyzable solid fuel			
A) Charcoal	B) Wood	C) Wax	D) Coal	
	The second second			
 Which preparation hydrocarbons of least 	on technique should one ow volatility	use for fire debris s	amples containing	
A) Carbon str C) Solvent wa	O. C.	B) Carbon tube at D) Heated head sp	S SERVICE CO.	
20. A club drug that i an animal tranqui	s used in drug facilitated sex lizer is called	ual assaults and legally	hy veterinarians as	
A) Mescaline	B) Ketamine	C) Hashish	D) Angel dust	
21. Which of the foll	owing evidence collection p	rocedure is considered	to be the method of	
A) Tape liftir	ng B) Vacuuming	C) Swabbing	D) Scraping	
22. Marbling is notice	ed by:			
A) 18 hrs	B) 36 hrs	C) 48 hrs	D) 24 hrs	
23. Which of the fingerprint	ollowing is an example o			
A) Small par	ticle reagent	B) Cynoacrylate		
C) Tape lift		D) Super glue me	ethod	

	ody has	s mumn	nified, t	he digits are br	ought to	normal condition	by
100							
Α) Imm	ersing i	t in 3%	Sodium/Potass	sium Hye	droxide	
	The second of the last	THE STATE OF THE S					
C) Imm	ersing i	t in 5%	Agar Gel			
10) Imm	ersing i	t in 3%	Ethanol			
					n to the	dermal papillae l	evel can damage t
A) Hyal	line		B) Granular	dalle 1	C) Spinous	D) Basal
26. Durir	ng the i	dentific	ation pr	ocess the purp	ose of fir	est level detail is:	
A) Tac	lassify t	he prin	t			
В) To ic	dentify :	ridge fle	ow			
C) Ton	arrow t	he num	ber of possible	donors		
D) Dete	rmine a	ntomat	ability			
27. In an	aircras	h case,	the foll	owing method	of survey	y is most useful	
A) Strip	method	d			B) Spiral metho	d
C) Zonal method						D) Wheel method	bd
28. Chro	matogr	aphy wa	as first	reported by			
A) Ram	sey		B) Henry		C) Pascal	D) Leduce
29. Matc	h the fo	ollowing	g:				
List -	1 Firea	rm			List -	11 Trigger pull in	pound
a) Or	dinary	shot gu	n		i) 31/2	to 41/2 pound	
					3000000000	200 (C)	
			Action	* A TOP TAX TO SET TO TOP TO THE			
d) Se	rvice R	title			1V) 6-	/ pound	
Code	s:						
	а	b	c	d		1961	
-A)	j	ii	iii	iv			
B)	i	iv					
7.65%							
D)	ii	i	iv	iii			
30. Tagg	ants in	ink are					
E) Veh	icle ers	used as	markers to ide	antify ink		
	25. Injury epide A 26. Durit A 26. Durit A 27. In an A 28. Chro A 29. Mate List- a) Or b) Pic c) Re d) Se Code A) B) C) D) 30. Tagg	B) Imm C) Imm D) Imm D) Imm 25. Injury or di epidermal A) Hyal 26. During the i A) To e B) To ie C) To n D) Dete 27. In an aircras A) Strip C) Zona 28. Chromatogr A) Ram 29. Match the fe List -1 Firea a) Ordinary b) Pistol c) Revolver d) Service B Codes: a A) i B) i C) iii D) ii 30. Taggants in A) Pign B) Veh C) Bind	B) Immersing is C) Immersing is D) Immersing is Epidermal layer A) Hyaline 26. During the identifice A) To classify to B) To identify to C) To narrow to D) Determine as D) Determine as D) Determine as D) Determine as D) Zonal methon C) Zonal meth	B) Immersing it in 5% C) Immersing it in 5% D) Immersing it in 3% 25. Injury or disease that penepidermal layer infras A) Hyaline 26. During the identification process. A) To classify the print B) To identify ridge flet C) To narrow the number D) Determine automate 27. In an aircrash case, the following and C) Zonal method 28. Chromatography was first to A) Ramsey 29. Match the following: List -1 Firearm a) Ordinary shot gun b) Pistol c) Revolver Double Action d) Service Rifle Codes: a b c A) i ii iii B) i iv ii C) iii iv i D) ii i iv ii O) iii iv i D) ii i iv ii 30. Taggants in ink are A) Pigment B) Vehicle C) Binders	B) Immersing it in 5% Hydrogen Pen C) Immersing it in 5% Agar Gel D) Immersing it in 3% Ethanol 25. Injury or disease that penetrates the skin epidermal layer infrastructure. A) Hyaline B) Granular 26. During the identification process the purp A) To classify the print B) To identify ridge flow C) To narrow the number of possible D) Determine automatability 27. In an aircrash case, the following method A) Strip method C) Zonal method 28. Chromatography was first reported by A) Ramsey B) Henry 29. Match the following: List -1 Firearm a) Ordinary shot gun b) Pistol c) Revolver Double Action d) Service Rifle Codes: a b c d A) i ii iii iv B) i iv ii iii C) iii iv ii iii D) ii i iv iii 30. Taggants in ink are A) Pigment B) Vehicle C) Binders	B) Immersing it in 5% Hydrogen Peroxide C) Immersing it in 5% Agar Gel D) Immersing it in 3% Ethanol 25. Injury or disease that penetrates the skin to the epidermal layer infrastructure. A) Hyaline B) Granular 26. During the identification process the purpose of fin A) To classify the print B) To identify ridge flow C) To narrow the number of possible donors D) Determine automatability 27. In an aircrash case, the following method of survey A) Strip method C) Zonal method 28. Chromatography was first reported by A) Ramsey B) Henry 29. Match the following: List -1 Firearm List - a) Ordinary shot gun i) 3% b) Pistol i) 3- c) Revolver Double Action ii) 14 d) Service Rifle iv) 6- Codes: a b c d A) i ii iii iv B) i iv ii iii C) iii iv i iii C) iii iv i iii C) iii iv i iii D) ii i iv iii 30. Taggants in ink are A) Pigment B) Vehicle C) Binders	B) Immersing it in 5% Hydrogen Peroxide C) Immersing it in 5% Agar Gel D) Immersing it in 3% Ethanol 25. Injury or disease that penctrates the skin to the dermal papillae lepidermal layer infrastructure. A) Hyaline B) Granular C) Spinous 26. During the identification process the purpose of first level detail is: A) To classify the print B) To identify ridge flow C) To narrow the number of possible donors D) Determine automatability 27. In an aircrash case, the following method of survey is most useful A) Strip method C) Zonal method D) Wheel method C) Zonal method D) Wheel method D) Wheel method Eist-11 Trigger pull in a) Ordinary shot gun b) Pistol C) Revolver Double Action d) Service Rifle Codes: a b c d A) i ii iii iv B) i iv ii iii C) iii iv i iii C) iii iv iiii C) iii iv i iii C) iii iv i iii D) ii i iv iiii C) Pigment B) Vehicle

31. Skull photo superimposition techni following cases?	que was used for the first time in which	of th
A) Daubert case	B) Ted Bundy case	
C) Ruxton case	D) Frye case	
32. Which of the following is not classifi	ied as Hallucinogen?	
A) Methaqualone	B) Psilocybin	
C) Marijuana	D) Mescaline	
33. Hydrocyanic acid is tested by which	of the following methods:	
A) Ferric Chloride test	B) Libermann'stest	
C) Nessler's reagent test	D) Prussian Blue test	
34. The book entitled "Hatcher's Notebo	ok" is related to	
A) Forensic Toxicology	B) Forensic Ballistics	
C) Forensic Medicine	D) Forensic Psychiatry	
35. Electrode less Discharge Lamp (EDI) is used in	
A) Atomic Absorption Spectron	ieter	
B) Atomic Emission Spectrome		
C) Infra-red Spectrometer		
D) X-ray Fluorescence Spectron	neter	
36. Joule burn is seen in burns due to		
A) Moist Heat B) We	t Heat C) Electrocution D) Fro	ost Bite
37. Smokeless gun powder is		
A) Potassium nitrate, Sulphur a	and Charcoal	
 B) Nitrocellulose and Nitroglyc 		
C) Nitrocellulose, Sulphur and	Charcoal	
 D) Potassium nitrate, Sulphur a 	nd Nitroglycerine	
38. Snap haunt is a following weapon		
A) Match loch	B) Flint lock muzzle loader	
C) Wheel lock	D) Percussion Lock	
39. Who is credited with first criminal i	dentification through the use of fingerprints?	
A) W. Osterberg O'Hara	B) E. R. Henry	
C) Juan Vucentich	D) Francis Galton	
40. Main ingredients of Mandrax is		
A) Mathaqualone	B) Anthraquinone	
C) Tetrahydrocannabinol	D) Phencyclidine	

41. Choose the odd of	ie our				
A) Bolometer C) Thermocou			B) Golay detector D) FID		
42. Choose the odd or	ne out				
A) JuanVucer	ntich		B) Johannes Evang	gelist Purkinje	
C) W. Osterbe	rg O'Hara		D) Francis Galton		
43. Which among the infinite variation of		defined as "All na	ture made things h	ave unlimited and	
A) Locard's P	rinciple		B) Quetelet's Rule		
C) Casper's Di	ctum		D) Me Naughten's	Rule	
44. Fingerprint exami	nation is assoc	iated with			
i) Galton (ii	E.R. Henry	(iii) Hans Gross	(iv) Heindel	(v) Malpighi	
A) All are cor	rect				
B) (i), (ii), (iii		correct			
C) (i), (ii), (iv					
D) (ii), (iii), (i					
45. NAA was discove	red in 1936 by	:			
A) Henery &	Street, St.		B) Hevery & Levi		
C) Chadwick			D) Rontgen		
46. What TAPPI stand	is for				
A) The Assoc	iation of Pulp	& Paper Industry		9	
B) The Assoc	iation of Polic	e Protection Inc.			
C) Technical	Association of	the Pulp & Paper	Industry		
D) Technical	Association of	Power Point Imag	ing		
47. Fake currency not	e is admissible	as evidence in con	art under		
A) IEA293	B)	IPC292	C) CrPC 292	D) IPC 293	
48. What is used in M	altov Cocktail	9			
A) Lead Azid		B) Mercury Fulminate			
C) Valine			D) Gasolin		
49. Melting point of the	he Nytril Fiber	is°C			
A) 281	B)	218	C) 128	D) 270	
50. Nails and hairs are	e commonly pr	reserved in:			
A) Acute Ars			B) Acute lead pois	oning	
C) Chronic Ar			D) All of the above	9988878	
C) Chiome in		W. N. 121771		875	