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<b>L 71.</b>		

Register			,		
Number					

### 2019

# FORENSIC SCIENCE (P.G. Degree Std.)

Time Allowed: 3 Hours

[Maximum Marks: 300

ASFS/19

Read the following instructions carefully before you begin to answer the questions.

#### IMPORTANT INSTRUCTIONS

- 1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.
- 3. Answer all questions. All questions carry equal marks.
- 4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- 5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
- 6. You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:
- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.
- 11. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- 12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.



	сапе	ed ·			
	U	indented writing	(B)	over writing	• •
	(C)	specimen writing	(D)	admitted writing	
2.	Serif	f is a term that can be related to		· -	
	(A)	HPLC	(B)	Emission spectra	
	(C)	X-ray diffraction	0	Typewriter	
•			•		
3.	The	principles used in the examination of	tvnewr	itino are	
	(A)	Class characteristics	ојрош		
	(B)	Individual characteristics			
	10	Class and Individual characteristics			
	(D)	General characteristics			
	` ′				
4.	The I	Diacritic is	•		
т.	(A)	the font in the typewriter			
	(B)	the capital letter used in English lar			
	(B)	the dot placed over the main stroke			
	(D)				
	(D)	the photocopy of a handwritten docu	ment		
5.		nronic filters are used in investigating	forged		
	(A)	pencil writings		ink strokes	
	(C)	paper material	$(\mathbf{D})_{\mathbf{C}}$	font	
3.	Inden	nted writings are best detected and de	ciphere	ed by using	
	(A)	UV			
	(B)	IR			
	(C)	Photographic techniques		•	
•		Side lighting techniques			

Impression left on papers positioned under a piece of paper of on which writing is done is

*								
4	7.	The	principal effects of alcohol ar	re on the				
	•	(A)	digestive system			•		
		VD)	CNS system					
		(C)	circulatory system		er			
		(D)	respiratory system					
•	8.	Pure	methyl alcohol is also know	n as				
	•	(A)	chloroform					
		(B)	ethyl alcohol				•	
		1	wood alcohol	•				
	•	(D)	bubanal					
							•	-
	9.	The	amount of alcohol present i	n the blood is di	irectly prop	ortional to t	the concen	tration of
	<b>.</b>		ol in the	if the blood is di	reedy prop			· ·
		(A)	Heart	•	•			
		(6)	Brain					
		(C)	Lungs					
٠		(D)	Liver					
	10.	Opiu	m is the coagulated air-drie	ed latex Trice obt	tained by ir	cision of the	e unripe c	apsules of
	20.		hite poppy		· · · · · · · · · · · · · · · · · · ·			1
	•	<b>(</b> )	Papaveri somniferous					
		(B)	Narium odorum					
		(C)	Cerabra theretia			•		
		(D)	Datura Fastulosa				· · · · · ·	
	11.	A tec	hnique more specific than co	olour test in the d	detection of	drugs is		
		4	Microcrystalline test					
	_	(B)	Tactile examination				•	
		(C)	Solubility test					
		(D)	Naked eye examination					
		. ,						
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							•	
				•				

12.	Woo	od spirit is nothing but		
	(A)	Rectified sprit	(B)	Methylated sprit
	(0)	Methyl alcohol	(D)	Denatured alcohol
	•			
13.	Lwse	ergic acid diethyl amide (LSD) is		
10.	(A)	Hypnotics	70	 Hallucinogens
	(C)	Depressant	(D)	Stimulants
	(0)	Depressant	(D)	Stilliulants
14.	For tests	identifying the drugs from the tissues	s and c	organs, the most widely used confirmation
	(A)	Thin - layer chromatography		
	(B)	Gas - chromatography		
	(C)	Immunoassay		
	(C)	Gas chromatography - mass spectron		
		Gas chromatography - mass spectron	netry	
15.	India	an opium yields the following percentag	ge of m	orphine
٠.	(A)	0.5 to 1%	(B)	3.9 to 7.6%
	(0)	9.5 to 14.2%	· (D)	1.8 to 4%
16.	Whic	ch of the following is used in Arrow pois	sons?	
	(A)	Sulphuric acid	(B)	Mercury
	(C)	Copper sulphate		Curare
			· '	
17.	Whi	b of the fallermin and in the		
11.	(A)	ch of the following pair is not correct?		
	(A) (B)	Snake venom - Proteolytic enzyme Nitric Acid - Corrosive poisons		
•	(C)	Alcohol - CNS Depressants		
	. (0)	Gasoline - Metallic poison		
	<b>(</b>	Gasonne - Metame poison		
			•	
18.	Whic	h is not obtained from plant?		
	(A)	Camphor		
	(B)	Cannabis		
	(C)	Cocaine		
		Chlorpromazine		

19.	High	explosives are classified as
	43)	Initiating and non-initiated explosives
	(B)	Terminating and non-terminating explosives
	(Č)	Progressive and non progressive explosives
	(D)	Both (A) and (B)
20.	Nam	ne the three categories of explosives.
	W	Commercial, military and improvised type
	(B)	Airgun, Shotgun, canon
	(C)	Agglutination, precipitation, HLA typing
	(D)	Nerin, Cleistanthin, Thevitin
21.	The	technique of — produces a unique absorption spectrum for an organic
		osive.
	(A)	UV spectrum
	P	IR spectrum
	(C)	HPTLC
	(D)	Gas chromotograph
22.	Smo	keless powder is made up of
		Nitro cellulose and nitro glycerine
	(B)	Sodium nitrate, sulphur and carbon
	(C)	Sulphur and phosphorus
·	(D)	Phosphorus and carbon
23.	A fin	ager print is an
<b>⊿</b> ∂.	AIII	individual characteristic
	(B)	group characteristic
	(D) (C)	class characteristic
	(D)	common characteristic
	(1)	

	(A)	Low explosives	(B)	Molotov Cocktain	
	(C)	IED		High explosives	
	:				
25.	The exam	information that is derived fro	m the colour	of the flames and smo	ke in a fire scene is ar
	(A)	Conditional evidence			
	(B)	Pattern evidence	•		
	C	Transient evidence		• •	
	(D)	Transfer evidence			
• *					
26.	Hane	I profile of an Association			
20.	Usua	d profile of an Arsonist is Introverts, Inferiority comple			
	(B)				
	(C)	Extrovert and superiority con Mentally ill	mpiex		
	(D)	Courageous and bold			
	(D)	Courageous and bold		• • • • • • • • • • • • • • • • • • •	
27.	A sat	urated cyclic compound contai	ning only carl	oon and hydrogen is	
	(A)	Cycloaldehydes			
	(B)	Cycloketones			
		Cycloalkanes			
	(D)	Cyclomethanol			
28.	Durir	ng the burning of methane gas	we get		
		$CH_4 + 2O_2 \xrightarrow{\text{yields}} CO_2 + 2H$			
	. 1		iter		
		dioxide by the process of			
		oxidation	( <b>D</b> )	1	
	(C)	•	(B)	reduction	
-	(C)	hydration	(D)	sublimation	
	•				
29.	1 . 1	marks are found on t	he fractured	surface where there	has been a relatively
	_	stress.			
	(A)	Concentric marks	· (B)	Radial marks	
	(C)	Striations		Hackle marks	

	fract	penetration of glass by a projectile whether it is a bullet of stone produced a ture pattern	
	(A)	An existing line of fracture	
	0	Radial fracture	
	(C)	Radial cracks	
	(D)	Refractive index of glass	
31.		———— is a hard, brittle amorphous substance that is composed of silicon oxid	es mixed
01.	with	a various metal oxides.	
	(A)	Fiber	
	(B)	Paint	
		Glass	
٠.	(D)	Soil	
32.	Rib n	marks on the cross section of concentric fracture gives information about the	
		from which side fracture opens	
•	(B)	nature of the glass	
	(C)	velocity of the projectile	
•	(D)	source of heat	
	(2)		
ė a	m		
33.	year.	sound spectrograph was first developed at Bell Telephone Laboratories in ——.	
	(A)	1938	•
	(B)	1940	* .
	C	1941	•
	(D)	1942	
ចំ វ	TUL a d	disconingination between buse in formation sint communication is manuscribe accounting	J J. J
34.		discrimination between hues in forensic paint comparison is normally accomplis	snea by
	(A)	UV light	
•		Stereoscopic binocular microscope	
	(C)	IR light	
	(D)	Oblique light	

	1	•					•			
•	1)	Acetone								
<u>(</u> I	3)	Acetic acid								. :
((	C)	Chloroform							•	
· (I	))	Dichloromethane							٠.	•
			1 1	•						
· T	he t	wo most important co	mnonen	ts of dri	ed na	int from t	he crimin	alist's no	vint of	view ar
		and the		oo or arr	са ра.	iii iioiii b.		anses pe	offic of	view are
(A	A)	Colour, Pigment								
(E	3)	Emulsion, Thinner			*.		•			
. ((	C) .	Solvent, Colour								
		Pigment, Binder		•						
							ŧ			
$\mathbf{T}$	he ls	ayer that provides corr	osion re	cictanca	for th	e automol	hilas is			•
	110 12	Electrocoat primer	OSTOTI LE	sistance	(B)	Primer s		,		
,(C	<u>-</u> )	Base coat			(D)	Clear coa				
. ( C	"	Dasc coat			(D)	Clear Coa	16			
	,	•								
	r									
		parison of the density	of soil p	articles	is don	e by whic	h of the fo	llowing 1	methog	1?
A (A		glass tube		articles	is dor	e by whic	h of the fo	llowing 1	${f method}$	1?
		glass tube density-gradient tube		articles	is dor	e by whic	h of the fo	llowing 1	metho	1?
	1)	glass tube		articles	is dor	e by whic	h of the fo	llowing 1	metho	<b>1</b> ?
(A	(1)	glass tube density-gradient tube		articles	is dor	e by whic	h of the fo	llowing 1	metho	<b>1</b> ?
(A	(1)	glass tube density-gradient tube mineral		articles	is don	e by whic	h of the fo	llowing 1	metho	<b>1</b> ?
(A (C (D		glass tube density-gradient tube mineral flotation method				e by whic	h of the fo	llowing 1	metho	1?
(A (C (D	C)  ine in	glass tube density-gradient tube mineral						llowing 1	metho	<b>1?</b>
(A (C (D	C)  ine in	glass tube density-gradient tube mineral flotation method nitial growth phase of l Carcinogen			(B)	Fibrinoge		llowing 1	metho	<b>1?</b>
(A (C (D	C)  ine in	glass tube density-gradient tube mineral flotation method nitial growth phase of l						llowing 1	metho	<b>1</b> ?
(A (C (D	C)  ine in	glass tube density-gradient tube mineral flotation method nitial growth phase of l Carcinogen Anagen	nair is k	nown as	(B) (D)	Fibrinogo Telogen		llowing 1	method	<b>1</b> ?
(A (C) (D) (T) (A	c) i) ine in	glass tube  density-gradient tube mineral flotation method  nitial growth phase of l  Carcinogen  Anagen  fibers are derived	nair is k	nown as	(B) (D)	Fibrinogo Telogen		llowing 1	metho	<b>1?</b>
(A (C (E T) (A	c) ine in	glass tube density-gradient tube mineral flotation method nitial growth phase of l Carcinogen Anagen — fibers are derived Man made fiber	nair is k	nown as	(B) (D)	Fibrinogo Telogen		llowing 1	metho	1?
(A (C) (D) (T) (A	c) ine in	glass tube density-gradient tube mineral flotation method  nitial growth phase of l Carcinogen Anagen  fibers are derived Man made fiber Polymers	nair is k	nown as	(B) (D)	Fibrinogo Telogen		llowing 1	metho	1?
(A (C (E T) (A	he in	glass tube density-gradient tube mineral flotation method nitial growth phase of l Carcinogen Anagen — fibers are derived Man made fiber	nair is k	nown as	(B) (D)	Fibrinogo Telogen		llowing	metho	1?

The acrylic lacquer paints can readily be distinguished from other classes by their solubility

41.		are associated with	nory tests name	ery .	rakayama ●	and telemin	aiiii iiiii	Hocrysta
	(A)	Semen	1	P	Blood			
	(C)	Saliva		D)	Sweat			
42.	Bloo	d can be characterized as b	eing human ori	igin	by the —	test	5 <b>.</b>	
	(A)	Luminol test		•	.*			
	P	Precipition test						
	(C)	Kastlemeyar colour test			•			
	$_{1}(\mathrm{D})$	Benzidin test						
•								
43.	The	existence of more than one	form of a genet	tic t	rait is knov	vn as		·
	A	Polymorphism						
	(B)	Absorption						
	(C)	Elution					•	
÷	(D)	Agglutination						er er er
					•		•	
4.4	3371-1	.l 6 +1 - 6-11	4]4-l					
44.		ch of the following is correc						
	(A)	Bast (stem) fibres –	Manila, sisal					
	(B)	Leaf fibres –	Flek, Hemp					
	(C)	Hair fibres –	Bombyx mori					
		Seed fibres –	Cotton and co	oir				·
*								
<b>45</b> .	The	following methods provide	most reliable co	oncl	usion in ca	se of disput	ed pate	rnity
	(A)	HLA typing						
	(B)	Cloning						
	(3)	DNA finger printing						
	(D)	Ordinary finger printing						
	•							
<b>1</b> 6.	Y-ST	Rs are found only in						
	(A)	Mothers			•	* •	*_	
	(B)	Females						
		Males			•			
	(D)	Daughters	•	•	•			
	(D)	Daugmers		•				
•						•	2	

47.	Post	mortem changes that causes a body to	lose he	eat
		Algor Mortis	(B)	Livor Mortis
	(C)	Rigor Mortis	(D)	Autopsy
48.		first treatise describing the applicati	on of s	cientific disciplines to the field of crimina
	(A)	Albert S. Osborn	(B)	Calvin Goddard
	C	Hans Gross	(D)	Francis Galton
49.		ch of the following is associated with p ry contact leaves a trace".	rocessii	ng crime scenes and is often summarised as
	(1)	Locard's principle	(B)	Trace evidence principle
	(C)	Bertillon's principle	(D)	Lacassagne's principle
50.		examination of fine arms, discharg nenition of all types is conducted by the		llets cartridge cases, shotgun shells and
	(A)	Biology unit	(B)	Toxicology unit
	401	Fire arms unit	(D)	Polygraph unit
51.	The :	application of science to law describes		<del></del>
	(A)	Pathology	(B)	Psychology
	(C)	Odentology	(2)	Forensic science
		o domotogy		Totalista selence
52.		popularized scientific crime detetion is value was first recognized and accept		through his fictional character long before eal life investigators.
	(A)	Sherlock Holmes		
	(B)	Edmond Locard		
	(0)	Sir Arthur Conan Doyle		
	(D)	Hans Gross		
53.		an skeletal remains for identification idual should be submitted to the follow		examination to reveal the identity of the vision of Forensic Science Laboratory.
	(1)	Anthropology	(B)	Serology
	(C)	Biology	(D)	Toxicology

54.	Whi	ch was the headquarters of the first chief Inspector of explosives?	
	(A)	Madras	
	D	Nagpur	
	(C)	Lucknow	
	(D)	Pune	
55.	Whe	re was the first serology department was established?	
	VV 110	Calcutta	
	(B)	Bombay	
•	(C)	Delhi	
	(D)	Madras	
	(D)	Mauras	
56.	In w	nich year ballistic laboratory was set up in India?	
	(A)	1948	
	(B)	1915	
	VC)	1930	
	(D)	1954	
57.	Whe	e was the first computer forensic laboratory established in India?	
01.	(A)	Bombay	
	(B)	Calcutta	
	(C)	Delhi	
	(0)	Hyderabad	
		nyderabad	
58.	Whei statu	was the use of DNA as a scientific tool in forensic medical examination has be torily acknowledged?	een
	(A)	2008 (B) 2000	
	(C)	2012 2006	
59.	A lik	ely sequence of events, evaluation of physical evidence, statements made by peo red supports	ple
	4	Crime-scene reconstruction (B) Drama reconstruction	
	(C)	Office reconstruction (D) Instrument reconstruction	
-			

60.	Cho	ose the right answer
	Basi	c principles of finger print are
		Accuracy permanency, individuality
	(B)	Permanency, variety, flexibility
	(C)	Transparency, adoptability, permanency
	(D)	Persistency, variety, flexibility
61.	The	ridges running from one side to the other making no backward turn is known as
	(A)	Composite pattern
	(B)	Loop pattern
	CO	Arch pattern
	(D)	Whorl pattern
62.	Dust	foot wear marks on the hard floors are lifted with
	<b>(1)</b>	Electro static lifting device
	(B)	Holograph
	(C)	Laser
	(D)	Shellac spray
63.	Gait	pattern is not studied by
	(A)	Foot line
	(B)	Length of step
	(C)	Width of step
		Rock climbing

- 64. The chemical used in the super glue fuming technique for developing finger prints is
  - (A) Cyano polyester
  - (B) Cyano polyesterate ester
  - (C) Cyano polyethylene ester
  - Cyano acrylate ester

65.	Fing	gerprints registered on p	oliable mater	ials are	called				
	(A)	Latent prints		•					
	(B)	Visible prints		•	•				
	- (6)	Plastic prints		r			4 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
	(D)	Eliminative prints							
					•				
66.	A 119	eful record for studying	the goit not	orn and	not commo	n in Indi	Io io	•	
00.	11 45	Photogrammetry	the gait patt	ern and	not comme	ii iii iiidi	a is		
	(B)	Molography				. *			
	(C)	Laser trajectory							
	(D)	ESDA							
*	(D)	LODA					*		
	-				•				
67.	Rese	arch on the extraneous	materials the	at adher	es to the fo	otwear h	as shows	that —	
		mmonly found on the fo	otwear to an	extent o	1 37 percen	t			
	(A)	Plant materials Gravel / Sand							
	(B)								
	(C)	Metal fragments					•		
		Glass particles.							
S8.	A fin	ger print made by the d	leposit of oils	or persp	oiration wh	ich is inv	risible to r	ıaked ey	e.
	(4)	Latent finger print		(B)	Naked fir	iger prin	t		
	(C)	Looped finger print		(D)	Arched fi	nger prin	$_{ m it}$		
89.	Asa	rule of thumb, the sprea	ad in the natt	ern mad	a by 19 a	augo aho	taun ia in	anoonad	1 inah
	for ev	very — of distar	nce from the	target.	C by 12 - g	auge sno	tguii is iii	creaseu	1 men
	(A)	1 feet		(B)	1 meter			•	
	(C)	1 decimeter			1 yard				
				•					
0.	The d	liameter of the gun barr	aol io Irnoven						
0.		Bore	er is known a	as					
	(A)	Caliber	· ·	÷.,					
•	(C)	Rifling					•		•
	(D)	Grooves		•				Ť	

71.	Tool	marks are encountered in the follow	ing cases	
	(A)	Murder cases		
	(B)	Suspicious death cases		
	(C)	Drowning cases		
	D	Burglary cases		
72.	Davri	no action of a tool will access		
14.		ng action of a tool will cause Abrasions	TD G i i i	
	(A)		(B) Striations	
		Indented impressions	(D) Fissures	
73.	The	size and shape of a tool will always re	eveal important	
	(1)	Class characteristics		
	(B)	Individual characteristics		
•	(C)	Minute ridges		
	(D)	Specific irregularities		
74.	Thoi	identifications of a narticular teal is a	and a language of the second o	
14.		identifications of a particular tool is p	oossible only with the	
	(A)	Indentation marks		*
	(B)	Striation marks		
	(C)	Graze marks		
		Minute imperfections		
75.	The r	nost suitable acid used in the etching	reagent for steel surface is	
	(A)	Aqua regia		•
	· O	Hydrochloric acid		
	(C)	Nitric acid		
	(D)	Commercial sulphuric acid		:
76.	TII.			
ю.	The -	·	t of the bore left rifling grooves are form	ied.
	(D)	Lands		
	(B)	Caliber		
	(C)	Rifling		•
	(D)	Gauge		

77.	The	three printing processes typically used in printing bank notes an
	(A)	letter press, intaglio, screen
	100	intaglio, typographic, offset
	(C)	wet offset, letter press, vignettes
	(D)	dry offset, typographic, vignettes
78.	Who	t is the commonly used metal in bullet manufacture?
10.	VVIIA	Lead alloy
	(D)	Stainless steel
	(B)	
	(C)	Silver
	(D)	Antimony
79.	Rete	ntion factor (Rf) is a measure of
	(A)	Distance travelled by the solute
	(B)	Partition co-efficient
	(C)	Distance travelled by the solvent
	D	Ratio of the distance travelled by the solute and solvent
	Ť	
80.	Perm	nits rapid separation of complex mixtures in the individual compounds and allows
		cification and quantitative determination of each compound
	(A)	AAS
	D	• GC
	(C)	MS
	(D)	ICPAES
31.		nas as many as ———— number of isotopes.
	(A)	4 (B) 6
	(C)	8
32.	Whic	h one of the instrument is not ideal for organic analysis of a subspace?
	(A)	GC
	(B)	Spectrophotometer

IR Spectrophotometer

NAA (Neutron Activation Analysis)

	TT 1 (4.							*	
(A)	Hydrogen/Air				,				
(B)	Acetylene/Nitrous oxide								
	Propane/Air			,		•			
•	Acetylene/Oxygen								•
							•		
	is an Instr	ument use	ed to mea	asure an	d record	d the al	sorptic	n specti	rum of
a che	emical substance.			•	•				
A)	HPLC								
3)	GC		*			* .	•		••
C)	MS								
	Spectrophotometer		₹.						
					•		r	<b>.</b>	
ıa	analytical method for ide	ntifying a	substar	nce by i	ts selec	tive ab	sorptio	n of dif	ferent
	elength of light is				•		_		
A).	diffraction							•	- '
5)	grating								
	chromatography								
•									
	chromatography								
C)	chromatography spectrophotometry								
) Lii	chromatography spectrophotometry ne is a term related to								
-Lin	chromatography spectrophotometry ne is a term related to Tube light								
(C) ()-Lin (A)	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp								
-Lin	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp Kerosene lamp								
C) -Lin (A) (C)	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp								
C) -Lin A) C)	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp Kerosene lamp								
Lin	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp Kerosene lamp	of							
C) -Lin A) C) he r	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp Kerosene lamp LED	of							
C) D-Lin A) C) D)	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp Kerosene lamp LED	of							
(A) (C) (D)	chromatography spectrophotometry  ne is a term related to Tube light Sodium vapour lamp Kerosene lamp LED  nuclear reactor is a source Electron	of							

88.	F1II 1	n the blanks:
		process of ——————————————————————————————————
	(A)	transport identification
	(C)	collection (D) probability
89.	Proce	ess of determining if two or more objects may have a same origin
00.	(A)	Individual characteristics
	(B)	Class characteristics
		Comparison
	(D)	Product rule
	(D)	110ddct1die
90.	Corre	oborative evidence is that
		Supports other evidence
	(B)	Associates an individual with another individual
	(C)	Links an individual with a particular location
	(D)	Rebuts other evidence
91.	Locai	rd's principle says
	4	Mutual contact leaves traces
	(B)	Mutual contact cannot leaves traces
	(C)	Only victim leaves traces
	(D)	Only accused leaves traces
	( )	
	3.5	
92.	Most of —	physical evidence collected at the crime site will require the accompanying submission purposes.
		Control (B) Photographs
	(C)	Sketches (D) Trace evidence
		(B) Trace evidence
93.	There	e is always a transfer of materials whenever two objects into contact is
	(A)	Bertillons principle
	(B)	Probability theory
	(C)	Locards principle
	(D)	Statistical theory

#### 94. What is substrate control?

- controls collected adjacent or closed to areas where physical evidences deposited
- (B) control collected at the area where physical evidence is deposited
- (C) controls collected at the laboratory
- (D) controls collected at the police station
- 95. The frequency of occurrence of an event is called
  - (A) Certainty
  - Probability
  - (C) Individual characteristics
  - (D) General characteristics
- 96. Photography with ultraviolet rays is used to reveal all except
  - (A) stains analysis
  - (B) paints analysis
  - (C) difference in paper analysis
  - charred document analysis
- 97. Where did you collect the control sample of hair, blood and semen for forensic comparison?
  - (A) at the crime scene
  - from respect
  - (C) from laboratory
  - (D) from police personnel
- 98. Evidence that can be associated with a common source with an extremely high degree of probability is said to possess
  - individual characteristics
  - (B) general characteristics
  - (C) specific characteristics
  - (D) group characteristics

99.	Ona.	rred Documents contents can be rev	realed by	rsmg	
	4	Infrared photography	(B)	Ultraviolet photography	
	(C)	Normal photography	(D)	X-Ray photography	
100.	Can	the author of a traced forgery be id	entified?		
	(A)	by comparing the forger's handw	riting with	the traced forgery	
	(B)	by comparing the forger's signatu	ire with th	ne traced forgery	
	(C)	by comparing the forger's cheque	with the	craced forgery	
		not possible	•		
101.	'Guio	de Lines' is a term associated with			
	(1)	traced forgery	(B)	freehand forgery	*
	(C)	simulated forgery	(D)	genuine signature	
102.		nal or usual deviations found dwriting are called	between	repeated specimens of a	any individua
	(A)	forged variations		natural variations	
	(C)	erased variations	(D)	chemical variations	
103.		is defined as a delibera	_	e of normal writing habit	s and is used
	wher	never the author wants to hide iden disguised writing		copybook writing	
	(C)	authentic writing	(B)	rhythmic writing	
	(0)	addlende writing	(D)	rnythine writing	
104.	A do	liberate departure from normal han	durriting	aghit is	
104.	(A)	illegible	dwriting i	disguise	
	(A) (C)	specimen writing	(D)	admitted writing	
	(0)	specimen witning	(15)	admitted witting	
	****				
105.	Who	is recognized as the father of docum			
	(C)	Albert S. Osborn	(B)	Palmer	
-	(C)	Zaner-Bloser	(D)	Maclean	

106.	Free	ehand drawings which copy a mod	el signature	e are termed as				
	(A)	Modern forgery	(B)	Simple forgery	•			
	407	Simulated forgery	(D)	Traced forgery	•			
107.	Ove	rwriting and crossing out in Docu	ment exami	nation is called				
	(A)	Indented writing						
	(B)	Erasure						
	(0)	Obliteration	e					
	(D)	Alteration						
108.	Iden	tifying characteristics for type and	d manufacti	ire of paper				
	(A)	Book Marks	(B)	Bullet Marks				
	(C)	Pencil Marks		Water Marks				
			<b>•</b>					
109.	This	types of hand writing is not a clas	ys aboroator	istic of a latter design				
200.	(A)	Capital	SS CHATACTET	Rubric				
	(C)	Numeral	(D)					
	(0)	Trumciai	(D)	Copy Book				
	m							
110.		Typewriting samples in the document problems can be handled with						
	(A)	Comparison microscope						
		Stereo microscope	٠.					
	(C)	IR conversion microscope						
	(D)	Student microscope						
111.	Hand	lwriting characteristics, habits (or	) mannerisi	ns peculiar to an individu	ual is called			
	(A)	Embellishment						
	(B)	Speed of writing						
	(C)	Idolize writing						
•		Idiosyncrasies						
	- ,							

	D	Speed balls			
•	(C)	Dope			
	(D)	LSD			
				• .	
113.		ne alcohol is circulated by the blood st mination its process in two mechanism		eeds at once to be — and ———	egin the Fas —
	(A)	Breath and dilution			
	(B)	Sweat and oxidation			
	(C)	Excretion and breath			
		Oxidation and excretion			
	- /				
114.		following substance is not obtained fro	m plant cannabis sa	tiva	
	(A)	Ganja			
		Morphine			
	(C)	Charas		•	
	(D)	Bhang			
115.	'Flas	hback phenomenon' is unique in	• .	,	
	(A)	Morphine	(B) Ketamine		
		LSD	(D) Ganja	•	
			(D) Gailja		
			•		•
116.	Ricin	us communis is a			
	(A)	Metallic poison			
	(B)	Chemical poison			<b>'</b> .
	(0)	Vegetable poison			
	(D)	Drug			
117.	Whic	h is wrongly matched?			
	(A)	Strong Acids - Salicylates			
	(B)	Weak Acids - Barbiturates			•
	\— /				

Neutral Acids - Meprobamate Amphoteries - Phenothiazines

112.

(A)

Crack

A combination of heroin and Cocaine is known as

	(A)	Lack of knowledge
	0	Resemblance of the systems of some poisoning to those of some diseases
	(C)	Lack of testing procedures
	(D)	Paucity of funds.
119.	The	specific rest applicable to the cases of cyanide poisoning is
110.	(A)	Reinsch test
	(A) (B)	Montiqui's test
	(D)	Prussianblue test
	(D)	Diphenylamine test
120.	Depe	ending upon the energy input and the physical properties of the explosive composition
		is formed.
	(A)	Radiation
	D	Hotspots
	(C)	Friction
	(D)	Energy
121.	Expl	osive substances which on initiation decompose via the passage of shockwave are called
	4	Detonators
	(B)	Fuses
*	(C)	Propellents
	(D)	Ignitors
400		
122.	•	ch of the following statement regarding "Plastic Explosives" is true?
	(A)	Plastic explosives are made by plastic material
	(B)	Plastic explosives are primary explosives
	(C)	Plastic explosives cannot be detected even by explosive sniffer dogs
	D	Plastic explosives are secondary explosives
		23

The Investigation of poison deaths is often made difficult by  $\_$ 

123.	A fla	aming fire though suppor presence of flame. This pl	ted by a gaseo henomenon is	us fue know	el, in some instances an	a fuel can burn without
	(A)	Complete combustion				
•	(B)	Spontaneous combustic	on			
	100	Glowing combustion				
	(D)	Partial combustion		٠		
124.	Mili	tary dynamite differs fror	n dynamita ac	it doe	es not contain the fall	lowing
	1	Nitroglycerine	ii ayiiaiiiite as	(B)	RDX	lowing
	(C)	TNT		(D)	SAE 10 motor oil	
	(5)			(D)	SAE 10 motor on	
1	<b></b>					
125.		most widely used explosiv	ve in military?			
	(A)	PETN		(B)	TNT	
	(C)	ANFO			RDX	
126.	In — with	fires, the a out attracting attention.	im of the arson	nist is	s to burn the target q	uickly, completely and
	(A)	Autoxidation	•	(B)	Accidental	
	4	Malicious		(D)	Spontaneous	
				` ,		•
127.				•		
141.	nonp	orous materials such as g	t suited for rii glass fragment	ising s.	the suspected flamm	able liquid found on a
	(A)	Solvent evaporation				
-	(B)	Steam distillation				
	(0)	Solvent wash				
٠.,	$(\mathbf{D})$	Vacuum distillation				
			•			
128.	The c	odour of smoke in respect	of hurning of f	ootho	ma ia dua ta	•
120.	(A)	Carbon monoxide	or burning of i	(B)	•	
	(C)	Nitrous oxide		(D)	Carbon dioxide	
	(0)	TVIDIOUS OXIUE			Sulfur dioxide	
129.	The n	nost commonly sought ph	ysical evidence	e in a	rson investigation is	
	(A)	Ignitable fluids		(B)	Foot prints	erani er H
	(C)	Finger prints		(D)	Blood stains	
					· ·	_ ·

130.	Che	mical composition of glass can be determined using
	(A)	Gas Chromatography and Mass Spectrometer
	D	Scanning Electron Microscope and Energy Dispersive X-ray
	(C)	UV-VIS Spectrophotometer
	(D)	Potentiometer
	-	
131.	Exar	mination of broken glass objects primarily involves
	(A)	swelling with solvents
	(B)	watermark
		mechanical fit
	(D)	capillary electrophoresis
132.	Loha	do the term involved in
104.		is the term involved in
	(A)	tempering of a glass
	(B)	stamping process
-	(C)	colouring process
		annealing process
133.		n glass is immersed in a liquid of similar refractive index, its ———— will opear and minimum contrast between the glass and liquid will be observed.
	(A)	Solve line
	D	Becke line •
	(C)	Annealing
	(D)	Match point
134.	Float	ation is a method used by scientists to determine the
	(A)	Weight
	(P)	Density
	(C)	Volume
	(D)	Refractive index
		AVOIT GOVETO THE GOVETO

136.	Exar	nination of the colour of soil samples that have been heated to temperature	
	data	for 30 minutes may supply additional information when combined with the from dry sample examination in some soils.	ıe
	(A)	750°C	
	9	850°C	
	(C)	950°C	
	(D)	1050°C	
137.	Pyre	glass is otherwise known as	
	1	Borosilicate	
	(B)	Bottle glass	
	(C)	Magnesium silicate	
	(D)	Window glass	
138.	The c	nly one paint that was fire retardant paint containing	
,	(A)	Sodium chloride	
	(B)	Potassium chloride	
	(C) <sub>2</sub>	Sulphur dioxide	
		Antimony oxide	
139.	Pyrol	vic gas chromatography is used in identification of	
		Paint binders	
	(B)	Glass particles	
,	(C)	Fibres	
	(D)	Hair	
ASFS	5/19	26	ı

In forensic laboratories density gradient tube technique is used for -

135.

(A)

(C)

(D)

Paint analysis

Gun shot residue analysis

Soil analysis

Glass analysis

140.	Whi	ch, when extracted from pl	hysiological	fluids s	show resistant to	o chemical re	eagents?	
	(A)	Urine			Spermatozoa			
	(C)	Fecal matter		(D)	Tears			
							•	
141.	Norr	mospermic semen contains	sperm cell	concent	rations from ap	proximately		
	(A)	$5\times10^6$ to $10\times10^6$ /ml		(B)	$10 \times 10^6$ to $25 \times$	$< 10^6 / \mathrm{ml}$	· .	•
	(C)	$25 \times 10^6$ to $50 \times 10^6$ /ml			$50 \times 10^6$ to 150	$\times 10^6/\mathrm{ml}$		
142.	Vase Spec	ectomized males will not re ific enzymes are helpful in	elease speri verifying tl	m. Thei he pres	refore ————ence of semen in	– tests can i i sexual assa	dentify soult case.	emen.
	(A)	Polymerase		(B)	Adenilase kina	ır		
	(C)	Phosphogluco mutase			Acid phosphota	ase		
	,							
143.	Whic	ch of the following test is fo	or detection	of spec	ies origin of bloo	od?		
	(A)	Benzidine test						
	(B)	Spectroscopic test						
	<b>V</b> C)	Precipitin test						
	(D)	Absorption elution test				•		
144.	What their	t identify all blood group s	systems as	well as	the polymorphi	c enzymes a	ınd prote	ins of
	4	Genotype of parents						
	(B)	Psychology of parents						
	(C)	Families of parents						
	(D)	Determination of parents	3					
145.	Anti-	H lectin, which strongly ared by extracting	reacts with	n the F	I-substance pre	sent in "O"	blood ca	an be
	(A)	Guinea pigs		(B)	Rats			
•		Ulex europaeus seeds		(D)	Rabbits			
								-
146.	Tarsa	lls are the bones of						
	(A)	Hand and shoulder		(B)	Pelvis			
	(C)	Skull and neck			Foot and ankle			
				<del></del> )	2 000 and annie			
			. 0.5	<del>-</del>				

147.	The l	oottom portion of hair ne	arest the scal	p in w	hich DNA	may be found	is called the
	(A)	Medulla					
	(B)	Shaft					
	10	Follicular tissue		*			
	(D)	Cortea			* 6.		
148.	Whic	h of the following is the f	foroncia datah	aga fa	m DNIA 2		
140.		NIBIN	orensic datab	(B)	AFIS		
	· (C)	CODIS		(D)	STR		
		CODIS		(D)	DIR		
149.	This	is not the basic componer	nt of a DNA m	ıolecul	le		
		Lipid		· ·			
	(B)	Sugar	•			***	•
	(C)	Nitrogenous base					
	(D)	Phosphate group			* * * * * * * * * * * * * * * * * * * *		
						***	
150.	The f	luid portion of the blood	is called as —	·			
	(A)	Thrombocyte				•	
	(B)	Antigen	e e e e e e e e e e e e e e e e e e e				
	(C)	Antibody	•				÷
	The second	Plasma			•		
				٠.			
151.	The h	uman diploid genome co	naista of how		naina af au		
101.	(A)	23 pairs	iisists of now .	шапу	pairs of aut	osomes	
	(B)	26 pairs					
	(D)	22 pairs	•				
	(D)	24 pairs	,				. <b></b>
	(1)	24 pairs					
					÷		
152.		oularizing scientific crim luence	e detection m	ethods	s, which fict	tional charact	er has a great rol
	(A)	Albert S. Osborn Sherlock Holmes					
	(C)						
	(C)	Sir Arthur Canon Doyle	•				
	(D)	Walter C Mc Crone					

153.		among the following developed Polymerase Chain Reaction (PCR) that amplifies a tiny tity of DNA and earned Nobel prize.
	(A)	Sir Alec Jeffreys
		Kary mullis
	(C)	Sir Arthur Conan Doyle
	(D).	Karl Land steiner
	(-)	
4 ~ 4		
154.		idia, the role played by the government forensic scientists has been given due nition under ————.
	(1)	Section 293 of CrPc
	(B)	Section 294 of CrPc
	(C)	Section 193 of CrPc
	(D)	Section 194 of CrPc
155.	Man	criminals commit crime in their own characteristic way known as ————.
	(A)	Corpus delicti
		Modus operandi
	(C)	Signatures
	(D)	Algor Montis
156.	The f	rst chemical Examiner's laboratory was set up at ————.
100.		Madras
	(B)	Delhi
	(C)	Calcutta
	(D)	Bombay
	(D)	Dolliday
	,	
157.		ia, the first fingerprint bureau was started in which place?
	(A)	Madras
	(B)	Bombay
	10	Calcutta
	(D)	Delhi

	1	Frye standard	(B)	Duebert ruling				
	(C)	Exper testimony	(D)	Gate keeping				
			,		·			
159.	Аро	rtable electrostatic lifting device	e used for lifti	ng dust impression is				
	(A)	Poliray	(B)	Route finder	• .			
-		Path finder	(D)	Tracker				
			, (")					
1.00	3371	7	1					
160.		n shoe and tire marks are impreaccomplished by	essed into soft	earth at crime scene, their	preservation is			
	(A)	Photography and tracing						
	(B)	Tracing and casting						
	107	Photography and casting						
	(D)	Lifting and casting						
			•					
161.	Five	d_points in a finger print pattern	a are called					
101.	TIAC	Delta point and core point	i are caneu					
	(B)	Right point and left point						
	(C)	Front point and back point						
	(D)	Upper point and lower point						
	(2)	oppor point and lower point						
	<b></b>	11 1 6 11						
162.	Two well defined loops one superincumbent on or surrounding the other is called							
	(A)	Lateral loop pattern	•					
	(B)	Ulnar loop pattern						
		Twinned loop pattern			•			
	(D)	Radial loop pattern						
163.	The c	common name for gypsum or cal	cium sulphate	e is				
	(A)	Talc powder						

(B)

(C)

Finger print developer

Fluorescent powder

Plaster of paris

164.	60 to	65% of the population has $$	—— finger	print pattern	
	(A)	Arch	(D) I	_oop	
	(C)	Whorl	(D) (	Composite	
	* •				
105	Troots	was a impression is an avample for			
165.		wear impression is an example for			
	(A)	Group characteristic			
		Individual characteristic			
	, (C)	Class characteristic			
	(D)	Common characteristic			
166.	For l suita		f residue ir	mprints which one of the following is	not
	(A)	Gel lifters	(B) A	Adhesive lifters	
	(C)	Electrostatic lifting	I I	Laser	
			.•		
167.		basic principles that form the pre- loped by	sent syster	m of identification by finger prints v	vas
	(A)	Alphonse Bertillon			
	D	Francis Galton			
	(C)	Leone Lattes			
	(D)	Calvin Goddard			
168.	The s	skin ridge pattern could be importa	nt for the i	identification of criminals was sugges	ted
	(A)	Alphonse Bertillon			
•		Henry fauld			
-	(C)	William Herschel			
	(D)	Will mess		•	-
169.		shoe print comparisons and automa	ted shoe pr	rint identification systems was develop	oed
	(A)	Poland			
	0	England			
	(C)	Russia			
	(D)	America			
	t e				
نـ			31	ASFS/	19

170.	Proc	of mark denotes		
	(1)	The stamp mark on the breach of the firearm		
	(B)	Firing pin mark on the cartridge case		
	(C)	Striation mark on the bullets		
	(D)	Percentage of alcohol.	• •	
		-		
171.	Disc	harged bullets (evidence) should be marked on the		
		Base		
	(B)	Sides	*	
* .	(C)	Left	•	
	(D)	Right		
			<b>.</b>	•
172.	Carb	oon monoxide remains in the barrel of a gun after —	•	houma
114.	(A)	6 hrs		— hours.
	(B)	12 hrs		
	(C)	18 hrs		
	(O)	24 hrs	2	
		24 ms		
173.	Fill i	n the blanks:	.1	
	(4)	is the most important component of	the cartridge	
	(A)	Breech block		
		Primer		•
	(C)	Cartridge head		
	(D)	Groove	•	
174.	Tool	marks helps in establishing the ———————————————————————————————————	of crime.	
	(A)	Corpus delicte		
		Modus operandi		
•	(C)	Victim		•
·	(D)	Site		

(A)	Lands
(B)	Grooves
(C)	Calibre
	Gauge
	method provides a more definitive indication of GSR collected from the
hand	of the shooter.
(1)	SEM - EDX
(B)	ICP - AES
(C)	GC - MS
(D)	FT - IR
	————— seems to adhere more firmly than the powder residue around the bullet
hole i	n clothing / tissue.
(A)	Major elements
(2)	Trace element
(C)	Back scatter electrons
(D)	Secondary electrons
	amount and distribution of ——————————————————————————————————
	Lead and antimony
(B)	Lead and bismuth
(C)	Antimony and bismuth
(D)	Barium and magnesium
Bank	notes have traditionally been printed on high-quality
(A)	paper
	rag
(C)	polymer
(D)	cellulose

The diameter of the shot gun barrel is expressed by term

	(D)	Atom					
				•			•
101	mh e			·-		·	
181.		way of eliciting how the elem	ents are combined :	into com	pounds in a	a crystal	
	(A)	Emission spectroscopy		•		•	•
	(B)	Atomic absorption					
	(C)	Neutron activation analysis	S				
		X-ray diffraction					
182.	Triti	um is the isotope of					·
	(A)	Carbon					•
	(LZ)	Hydrogen					
	(0)				• •		
	(C)	Oxygen					. *
	(D)	Nitrogen					•
					•		
183.	Instr	rument used to obtain and rec	ord the line spectru	ım is	•		•
	(A)	Absorption spectrograph		• .			
		Emission spectrograph				• •	
	(C)	IR spectrograph					
	(D)	UV spectrograph	. '				
		o v spootrograph					
				÷			
184.	This	substance can be an example	for sublimation				
	(11)	Iodine					
	(B)	Water					4
	(C)	Proteins					
	(D)	Lipids					
	•						
. ~				· · · · · · · · · · · · · · · · · · ·			
ASFS	719	· ·	34				<b>ب</b>

A nuclear reactor is a source of

Proton

Neutrons

Electron

180.

(A)

(C)

	(A)	HPLC	. (B)	Spectrophotomete	ery
•	(0)	Electrophoresis	(D)	GC	
					•
186.	The	fingerprint of heroin samples can be p	rovided	l by	
	(A)	Mass spectrometry			
	(B)	X-ray diffraction			to the second
		I.R. Spectrophotometry		· · · · · · · · · · · · · · · · · · ·	
	(D)	Scanning electron microscopy			
	` ,				•
105	XXXI :				
187.	•	ch of the following can be used as a car	rier ga	s in Gas chromatog	raphy?
	(A)	Hydrogen and chlorine	•		
	(B)	Ozone and Oxygen			
	(C)	Bromine and Sulphur – di – oxide			
		Nitrogen or Helium			
188.	Iden	tification of Organic compounds is bat	ter in –	·	that the
	(A)	Neutron Activation analysis			
	(B)	Atomic Absorption spectrophotomet	ry		
	(C)	Spectrophotometry		•	
		Mass spectrometry		<b>.</b>	
	,				•
100	Timb	4 4 1			
189.	Ligh	t petroleum to heavy petroleum distill	ates ca	n be separated by	
_	(D)	Gas chromatography			
	(B)	Video spectral comparator			
	(C)	Infra red spectroscopy			
	(D)	Cross over Immuno electrophoresis			•
190.	Gas	chromatography uses which types of n	nobile p	hase	
	(A)	Plates			
	(B)	Silica			٠.
	40	Gas			
	(D)	Liquid			
					¥.
				,	

Best technique for separating and identifying body fluids is

Class characteristics (B) Individual characteristics (C) Product rule (D) Crime-Scene reconstruction.  192. Each item collected at the crime scene must be placed in a	191.		perties of evidence that can only be associated with a group and never with a single ce is known as.
(B) Individual characteristics (C) Product rule (D) Crime-Scene reconstruction.  192. Each item collected at the crime scene must be placed in a		(A)	Class characteristics
(D) Crime-Scene reconstruction.  192. Each item collected at the crime scene must be placed in a		(B)	
(D) Crime-Scene reconstruction.  192. Each item collected at the crime scene must be placed in a		(C)	Product rule
(A) Plastic container (B) Universal container. (C) Separate container. (D) Airtight container.  193. A forensic examination process including examination of biological evidence follows a bass sequence of steps. Which of the following lists the correct sequence? (A) Recognition, identification, individualization and reconstruction (B) Recognition, individualization, identification and reconstruction (C) Individualization, recognition, identification and reconstruction (D) Identification, recognition, individualization and reconstruction.  194. This is not the method of crime scene search. (A) Grid method (B) Spiral search method (C) Line search method (C) Line search method (G) Going through the list of history sheeters  195. Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is (A) to determine the voltage (B) to find out the wattage to determine whether a light was 'on' or off at the time of impact		, ,	
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194. This is not the method of crime scene search.  (A) Grid method  (B) Spiral search method  (C) Line search method  (D) Going through the list of history sheeters  195. Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is  (A) to determine the voltage  (B) to find out the wattage  to determine whether a light was 'on' or off at the time of impact		(C)	Individualization, recognition, identification and reconstruction
<ul> <li>(A) Grid method</li> <li>(B) Spiral search method</li> <li>(C) Line search method</li> <li>(D) Going through the list of history sheeters</li> <li>(A) Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is</li> <li>(A) to determine the voltage</li> <li>(B) to find out the wattage</li> <li>(C) Line search method</li> <li>(D) Going through the list of history sheeters</li> <li>(D) Going through the list of history sheeters</li> <li>(E) To determine the voltage</li> <li>(B) to determine whether a light was 'on' or off at the time of impact</li> </ul>		(D)	Identification, recognition, individualization and reconstruction.
<ul> <li>(A) Grid method</li> <li>(B) Spiral search method</li> <li>(C) Line search method</li> <li>(D) Going through the list of history sheeters</li> <li>(A) Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is</li> <li>(A) to determine the voltage</li> <li>(B) to find out the wattage</li> <li>(C) Line search method</li> <li>(D) Going through the list of history sheeters</li> <li>(D) Going through the list of history sheeters</li> <li>(E) To determine the voltage</li> <li>(B) to determine whether a light was 'on' or off at the time of impact</li> </ul>			
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(C) Line search method  Going through the list of history sheeters  Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is  (A) to determine the voltage  (B) to find out the wattage  to determine whether a light was 'on' or off at the time of impact		(A)	Grid method
Going through the list of history sheeters  195. Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is  (A) to determine the voltage  (B) to find out the wattage  to determine whether a light was 'on' or off at the time of impact		(B)	Spiral search method
Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is  (A) to determine the voltage  (B) to find out the wattage  to determine whether a light was 'on' or off at the time of impact		(C)	Line search method
Normally, the purpose of examining vehicle head lights or tail lights as physical evidence is  (A) to determine the voltage  (B) to find out the wattage  to determine whether a light was 'on' or off at the time of impact		D	Going through the list of history sheeters
(A) to determine the voltage  (B) to find out the wattage  to determine whether a light was 'on' or off at the time of impact			
(A) to determine the voltage  (B) to find out the wattage  to determine whether a light was 'on' or off at the time of impact	105	None	
(B) to find out the wattage to determine whether a light was 'on' or off at the time of impact	133.		
to determine whether a light was 'on' or off at the time of impact			
		· (B)	
(D) to fix the headlight or tail light back on the vehicle.		(D)	
		(D)	to fix the headlight or tail light back on the vehicle.

196.	A lis	at of all persons who came into possession of an item of evidence
		Chain of custody
	(B)	Forensic expert
	(C)	Investigating officers
	(D)	Expert witness
•	` '	
197.		n a criminal come in contact with an object or person, a cross transfer of evidence red. This is called
	(1)	Locard's Principle
	(B)	Law of Circumstantial facts
	(C)	Law of Individuality
	(D)	Law of Progressive change
198.	Auto	omobiles run on gasoline crime laboratories run on
100.	(A)	Police investigation
	(B)	Direct enquiry
	(2)	Physical evidence
	(D)	Criminal law
	(2)	
199.		frequent inability of the expert to relate physical evidence to a common origin with a degree of probability in which the evidence possesses
	(A)	individual characteristics
		class characteristics
	(C)	common characteristics
-	(D)	specific characteristics
200	ті. 	
200.		method used to support a likely sequence of events by the observation and evaluation of ical evidence, as well as statements made up those involved with the incident is called
	(A)	notes-taking
	(B)	searching

sketching

reconstruction

38

39

ASFS/19 [Turn over

ASFS/19 40