

FORENSIC SCIENCE_DU_2016

1.	The wavelength range 2000Å-4000Åis known as:				
	(a) Shot UV Region		(b) Long UV Region		
	(c) Both (a) and (b) abo	ve	(d) None of the above		
2.	NMR stands for:				
	(a) Nuclear magnetic Re	esonance	(b) Non Magnetic Resona	nce	
	(c) Nuclei Magnetic Res	sonance	(d) Normal Magnetic Reso	onance	
3.	X-rays were discovered	X-rays were discovered by:			
	(a) Roentgen	(b) Henry Becquerel	(c) Goldstein	(d) Bohr	
4.	X-Rays are especially use	eful for the identification o	f:		
	(a) Gemstones	(b) Explosives	(c) Metals	(d) All of the above	
5.	Chromatography is base	d on the principle of:			
	(a) Column absorption		(b) Adsorptive		
	(c) Extraction		(d) Selective distribution		
6.	The separate technique is applied electric field is ca		charge particles through a m	natrix under the influence of an	
	(a) Electrolysis	(b) Electrophoresis	(c) Chromatography	(d) All of the above	
7.	Gel Electrophoresis is ba	ased on:			
	(a) Size	(b) Electrical charge	(c) Physical property	(d) All of the above	
8.	Specific gravity of blood	is:	INDUATION		
	(a) 1	(b) 1.06	(c) 1.08	(d) 1.09	
9.	Another name of plasma	is:			
	(a) Liquid plasma	(b) Water	(c) Liquor Sanguine	(d) None of the above	
10.	In 1 mm ³ of blood, the to	otal number of RBC is:			
	(a) 5 million	(b) 4 million	(c) 4.5 million	(d) 6 million	
11.	Hb A is also known as:				
	(a) $\alpha_2\beta_2$	(b) 2∂2β	(c) β2γ2	(d) None of the above	
12.	Which test is the confirmatory test for blood?				
	(a) Benzidine test		(b) Techmann test		
	(c) Both (a) and (b) abo	ve	(d) All of the above		



13.	The blood falling through the air takes the shape of:					
	(a) A sphere (b) Needle	(c) Rhombus (d) Satellite				
14.	The concept 'ABO blood groups are inherited characteristics' was first observed by:					
	(a) Karl Landsteiner (1911)	(b) Dacatello and Sturli (1911)				
	(c) Leon lattes (1911)	(d) Von Dungern and Hirezfeld (1911)				
15.	Dry blood stains can be collected by:					
	(a) Cutting (b) Scraping	(c) Swabing (d) All of the above				
16.	Gel diffusion technique is used for:	Gel diffusion technique is used for:				
	(a) Race identification	(b) Sex identification				
	(c) Age identification	(d) Origin identification				
17.	AFLP stands for :					
	(a) Automated Fragment Length Polymorphism	(b) Atomic Fragment Length Polymorphism				
	(c) Amplified Fragment Length Polymorphism	(d) None of the above				
18.	Which of the following forensic DNA technique was first developed?					
	(a) STR (b) VNTR	(c) AFLP (d) SNP				
19.	Which of the following substrate coupled with Brentamine Fast blue B for forensic application?					
	(a) 4-MUB	(b) α -naphthylphosphate				
	(c) Both (a) and (b) above	(d) None of the above				
20.	For how long sperm head can be observed in cer	For how long sperm head can be observed in cervix?				
	(a) 1 week (b) 10-15 days	(c) 4-6 days (d) 1 month				
21.	The range of daily saliva production is:					
	(a) Between 0.5 and 0.75 litres	(b) Between 0.5 and 1.00 litres				
	(c) Between 0.75 and 1.00 litres	(d) Between 0.75 and 1.5 litres				
22.	HAS stands for:	CHECHTOON				
	(a) Human salivary α -amylase	(b) Human salivary β -amylase				
	(c) Human salivary γ -amylase	(d) All of the above				
23.	The process of ejection of urine from the urinary bladder through the urethra to the outside of the body is called					
	:					
	(a) Micturition (b) Urination	(c) Emiction (d) All of the above				
24.	Chemical test for urine detects:					
	(a) Urea (b) Fatty acid	(c) Both of the above (d) Amino acids				
25.	Jaffe test detects:					
	(a) Creatinine in urine	(b) Urea in urine				
	(c) Indican in urine	(d) None of the above				



26.	3-indoxy sulphuric acid (Indican) in urine can be detected by:						
	(a) ELISA		(b) RIA				
	(c) Gas chromatograp	ohy	(d) Thin Layer Chromate	ography			
27.	The study of hair is kr	nown as :					
	(a) Lithography	(b) Histology	(c) Trichology	(d) Mycotology			
28.	Human hair grows at t	the rate of approximately:					
	(a) 0.2 mm/day	(b) 0.3 mm/day	(c) 0.4 mm/day	(d) 0.5 mm/day			
29.	The shaft diameter in l	The shaft diameter in human hair is:					
	(a) 20120μ	(b) $50-150\mu$	(c) 40-150 µ	(d) 110 µ			
30.	Last phase of human g	growth is:					
	(a) Telogen	(b) Catagen	(c) Anagen	(d) None of the above			
31.	The fluorescence of se	emen stains under UV ligh	t is:				
	(a) Bluish-white	(b) Yellowish-green	(c) Reddish-green	(d) Purplish			
32.	Mitochondrial DNA can be usually found in:						
	(a) Shed hair	(b) Pulled hair	(c) Animal hair	(d) All of the above			
33.	Polyester is the repeating unit of:						
	(a) Ether	(b) Beads	(c) Carbon	(d) Ester			
34.	'The dose makes the poison' said by:						
	(a) Mathieu J.B. Orfil	la	(b) Karl Landsteiner				
	(c) Paracelsus		(d) None of the above				
35.	A dead body is having cadaveric lividity of bluish green color, the most likely cause of death is by poisoning due to:						
	(a) Hydrocyanic acid		(b) Hydrogen sulphide				
	(c) Oleander	CAREER	(d) Sodium nitrite				
36.	Both hepatic and renal toxicity can be caused by:						
	(a) CCI ₄	(b) Arsenic	(c) Copper sulphate	(d) All of the above			
37.	A patient with suspected poisoning has brownish brown urine, poisoning is with:		ish oral mucosa and tongue,	constricted pupil and greenish			
	(a) Carbolic acid	(b) Morphine	(c) H_2SO_4	(d) Barbiturate			
38.	Average fatal period of lead poising is:						
	(a) 1-2 hours	(b) 15 hours	(c) 1-2 days	(d) Immediately			
39.	The term 'narcotic' is derived from the word:						
	(a) Toxicon	(b) Narcos	(c) Narkotikos	(d) Nokitos			
40.	Scientific name of opium is:						
	(a) Papaver sominifer	um	(b) Cannabis sativa				
	(c) Erythoxylon coca		(d) None of the above				



41.	The most common dil	uents of heroin is:				
	(a) Codeine	(b) Morphine	(c) Starch	(d) Quinine		
42.	Marijuana is derived from the plant:					
	(a) Cannabis		(b) Opium			
	(c) Coca derivatives		(d) All of the above			
43.	DRE stands for:					
	(a) Drug Recognition	Expert	(b) Drug Rate Expert			
	(c) Drug Rapid Effect		(d) None of the above			
44.	Which of the following is not the not the metabolite of ethanol?					
	(a) Acetaldehyde	(b) Acetone	(c) Acetic acid	(d) All of the above		
45.	Study of the motion of	f a projectile from the muz	zzle of the weapon to the targ	get is:		
	(a) External ballistics		(b) Terminal ballistics			
	(c) Internal ballistics		(d) None of the above			
46.	The constriction of the barrel near the muzzle is known as:					
	(a) Pitch	(b) Twist	(c) Choke	(d) Yaw		
47.	The firing range of the	pistol is around:				
	(a) 30-45 yards	(b) 20-25 yards	(c) 10-25 yards	(d) 45-50 yards		
48.	The primer mixer residue consists of:					
	(a) Mercury		(b) Potassium Chlorate			
	(c) Nitrate		(d) All of the above			
49.	The comparison microscope became an indispensable tool of firearm examination through the efforts of:					
	(a) Hans Gross		(b) Calvin Goddard			
	(c) Paul Kirk		(d) Edmond Locard			
50.	Substance that brings relief from pain and produces sleep is known as:					
	(a) Psychotropic subs	stance	(b) Narcotic			
	(c) Therapeutic medicine		(d) Poison	(d) Poison		
51.	In which year Alphonse Bertillon developed the science of Anthropometry					
	(a) 1879	(b) 1880	(c) 1881	(d) 1882		
52.	Who is known as father of modern toxicology?					
	(a) Mathieu Orfila	(b) Henry Faulds	(c) Edmond Locard	(d) Calvin Goddard		
53.	The Central Forensic Science Laboratory under CBI, New Delhi was established in the year:					
	(a) 1966	(b) 1967	(c) 1968	(d) 1969		
54.	Who propounded the	'Principal of Exchange'?				
	(a) Francis Galton		(b) Alphonse Bertillon			
	(c) Hans Gross		(d) Edmond Locard			



55.	Which division of a crime laboratory conducts the examination of body fluids and organs for drugs and poisons?				
	(a) Chemistry division	(b) Ballistic division			
	(c) Toxicology division	(d) Physics division			
56.	The most reliable form of evidence is:				
	(a) Weapon (b) Fiber	(c) Clothes (d) Fingerprints			
57.	Who devised the first workable procedure for dried bloodstains?				
	(a) Dr. Leone Lattes	(b) Karl Landsteiner			
	(c) Parcelsus	(d) Hans Gross			
58.	Who developed the first microscopic crystal test for	or haemoglobin using haem crystals?			
	(a) Ludwig Teichmann, 1853	(b) Vittorio Siracusa, 1853			
	(c) Frank Lundquist, 1853	(d) Leon Lattes, 1853			
59.	In a firearm injury, there is burning, blackening, tattooing around the wound along with the cherryred color of the surrounding tissues and is circular in shape, the injury should have :				
	(a) Close shot entry	(b) Close contact exit			
	(c) Contact shost entry	(d) Distance shot entry			
60.	When and where Government of India established first Government Examiner of questioned documents?				
	(a) Shimla, 1906	(b) Calcutta, 1906			
	(c) Chandigarh, 1906	(d) Hyderabad, 1906			
61.	In India, the first state forensic science laboratory was established at:				
	(a) Calcutta, 1952 (b) Calcutta, 1955	(c) Delhi, 1952 (d) Delhi, 1955			
62.	Which division of crime laboratory conducts the eammunition of all types?	examination of bullets cartridge cases, shot-gun shells and			
	(a) Chemistry division	(b) Biology division			
	(c) Physics division	(d) Ballistics division/firearms division			
63.	Physical evidence at the scene of crime should be collected in the presence of:				
	(a) Relation of victims	(b) One independent witness			
	(c) Two independent witnesses	(d) Magistrate			
64.	Blood stained clothes from the scene of crime should be packed after:				
	(a) Drying in shade at room temperature	(b) Drying for two hours in bright sunlight			
	(c) Heating upto 60°C	(d) As such without drying			
65.	Causing disappearance of evidence of offence by a forensic scientist can be punished under:				
	(a) Section - 201, IPC	(b) Section - 201, CrPC			
	(c) Section 301 IPC	(d) Section - 301 Cr PC			



66.	In which year Albert Osborn authored the classic book titled 'Questioned Documents'?					
	(a) 1909	(b) 1910	(c)	1911	(d) 1912	
67.	The best collection media for paper that have a smell like gasoline or diesel is:					
	(a) Small plastic zip lock bag		(b)	Cellophane envelope		
	(c) Metal box		(d)	Waterproof paper bag		
68.	The DNA evidence database is called:					
	(a) CODNA	(b) CCDNA	(c)	CODIS	(d) CODIA	
69.	Edgeoscopy is the study of:					
	(a) Lip prints	(b) Fingerprints	(c)	Foot prints	(d) Palatal prints	
70.	Section 420, IPC describ	oes:				
	(a) Theft	(b) Murder	(c)	Forgery	(d) Rape	
71.	Opinions of experts is de	fined under:				
	(a) Section - 45, Indian Evidence Act		(b) Section - 46, Indian Evidence Act			
	(c) Section - 42, Indian Evidence Act (d) Section - 43, Indian Evidence Act					
72.	Section 15, NDPS Act' 1985 describes punishment for contravention in relation to :					
	(a) Poppy straw		(b)	Coca plant and coca le	aves	
	(c) Prepared opium		(d)	Opium poppy and opiu	m	
73.	The section dealing with examination-in-chief is:					
	(a) Indian Evidence Act-	-135	(b)	Indian Evidence Act-13	36	
	(c) Indian Evidence Act-	-137	(d)	Indian Evidence Act-13	38	
74.	Explosives is described in:					
	(a) Explosives substance	e Act 1908	(b)	Explosives substance A	act 1918	
	(c) Explosives substance	e Act 1928	(d)	Explosives substance A	act 1980	
75.	Composition of Molotov Cocktail is:					
	(a) Kerosene + sulphuric acid		(b) Diesel + sulphuric acid			
	(c) Water + sulphuric ac	id	(d)	Petrol + sulphuric acid		
76.	A glass pane having a clean hole with almond shape flaking on one side, will indicate that:					
	(a) A bullet at right angle hit it		(b) A bullet at an oblique angle hit it			
	(c) It was broken due to sun rays		(d) It was broken by an oval shaped stone			
77.	Presence of soil in shoes can help to determine:					
	(a) Time of crime	(b) Mode of crime	(c)	Type of crime	(d) Place of crime	
78.	Boyde's method helps in determination of age from:					
	(a) Bone	(b) Teeth	(c)	Nail	(d) Hair	



79.	Flake of which metal is used to detect the presence of sulphur compounds in the paper:					
	(a) Aluminium	(b) Copper	(c) Silver	(d) Gold		
80.	The process which leaves impression on reverse side of the note is:					
	(a) Intaglio process		(b) Sophisticated print	ing		
	(c) Offset printing		(d) None of the above			
81.	•	ne Director, Deputy Dire in court under section:	ctor or Assistant Director o	f a forensic science laboratory are		
	(a) CrPC - 291	(b) CrPC - 292	(c) CrPC - 293	(d) CrPC - 294		
82.	Which of the following	method is the most relial	ole for identification amongs	et identical twins:		
	(a) Fingerprints		(b) DNA Finger printing	ng		
	(c) Scar marks		(d) Blood groups			
83.	Which of the following	has medico-legal import	rance?			
	(a) Lower end of femu	ır	(b) Upper end of humo	erus		
	(c) Upper end of femu	ır	(d) Lower end of humo	erus		
84.	Post-mortem caloricity may be seen in all of the following causes of death, except:					
	(a) Septicaemia		(b) Barbiturates poisor	ning		
	(c) Strychnine poisonii	ng	(d) Tetanus			
85.	Most of the chance finger impressions at the scene result from:					
	(a) Tip of the finger		(b) Palm of the hand			
	(c) Hairy part of the b	ody	(d) Toes of the feet			
86.	Cyanosis occurs when the concentration of reduced haemoglobin exceeds:					
	(a) 4g%	(b) 2g%	(c) 5g%	(d) 6g%		
87.	Fracture in vertebrae a	re seen in case of judicia	hanging at:			
	(a) C4-C5	(b) C1-C2	(c) C2-C3	(d) C6-C7		
88.	Forensic scientist is exempted from appearing in the court of law under section:					
	(a) 72-IEA	(b) 92-IPC	(c) 293-CrPC	(d) 302-IPC		
89.	Injury that comes under IPC Section 320 is:					
	(a) Abrasion over face	2	(b) Nasal bone fractur	e		
	(c) Epistaxis		(d) Lacerated wound	over scalp		
90.	Curling ulcer is seen in:					
	(a) Head injury	(b) Burn	(c) Corticosteroid	(d) TPN		
91.	At what age does the b	oirth length doubles:				
	(a) 1 year	(b) 2 years	(c) 3 years	(d) 4 years		



92.	A 60-year old male suffering from auditory hallucination says that people staying upstairs are talking about him and conspiring against him. He dropped a police complaint against them, but allegations were proved to be wrong. The diagnosis is:				
	(a) Schizophrenia	(b) Depression	(c) Dementia	(d) Delusional disorder	
93.	Exhumation can be don	ne in India :			
	(a) After 7 years	(b) After 2 years	(c) After 10 years	(d) At any time	
94.	Brain is preserved in all of the following except:				
	(a) OPC Poisoning		(b) Alkaloid poisoni	ng	
	(c) Heavy metal poison	ning	(d) Volatile organic	poisoning	
95.	$S = \frac{A^2 N^3}{4BK}$ is the form	ula of :			
	(a) Stopping power		(b) Muzzle velocity		
	(c) Stability factor		(d) Ballistic coefficie	ent	
96.	Human femur can be identified by the presence of:				
	(a) Long and narrow r	neck	(b) Linea aspera		
	(c) Rounded head		(d) Medial Condyle		
97.	A man gets drowned in a pond. The most characteristic finding at autopsy is:				
	(a) Petechial haemorrh	nages	(b) Washerwoman's	s feet	
	(c) Cutis aserine		(d) Froth at mouth a	and in respiratory passage	
98.	Statement not true about rigor mortis is:				
	(a) Appears immediate	ely after death			
	(b) Affects both voluntary and involuntary muscles				
	(c) Indicates times since death				
	(d) Results from fusion	n of actin and myosin filar	nents NDEAVOL	IR)	
99.	Who is known as father of Microscopy?				
	(a) Zaccharias Jansen		(b) Antony Van Lee	wenhoek	
	(c) Robert Hooke		(d) Ernest Abbe		
100.	In forensic science, stereomicroscope is used for the examination of:				
	(a) Disputed documen	ts	(b) Fibres		
	(c) Both (a) and (b) at	oove	(d) None of the abo	eve	