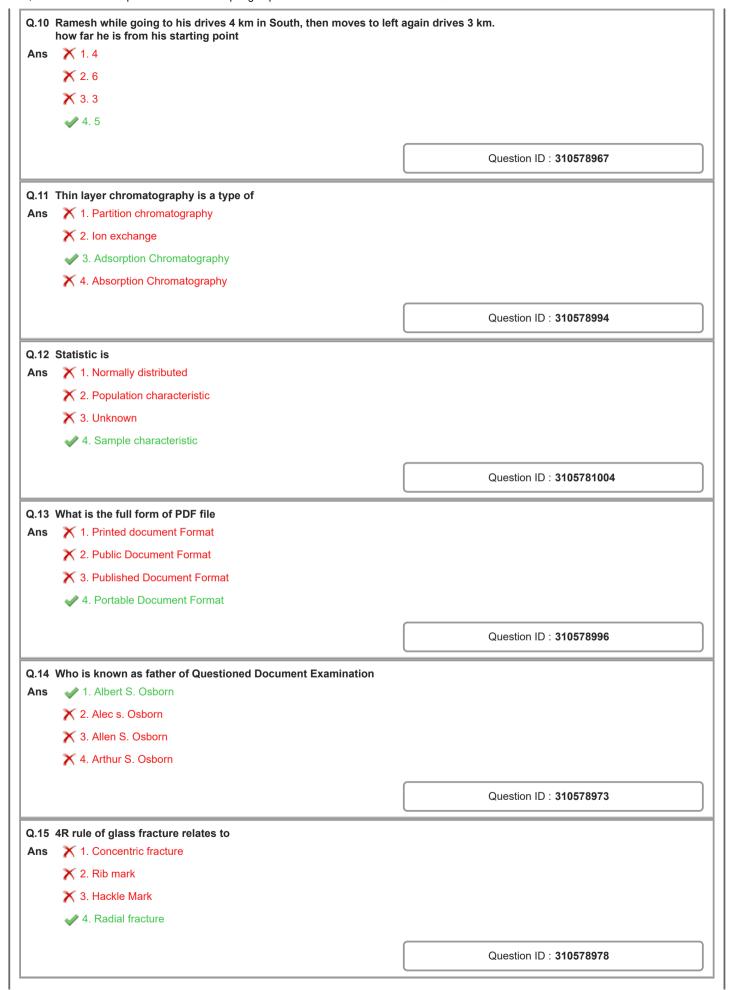
FACT and FACT Plus Exam 20 March 2022

Exam Name	FACT and FACT Plus Exam 20 March 2022
Test Date	20/03/2022
Test Time :	9:00 AM - 11:00 AM
Subject	Forensic Physical Sciences FACT Plus

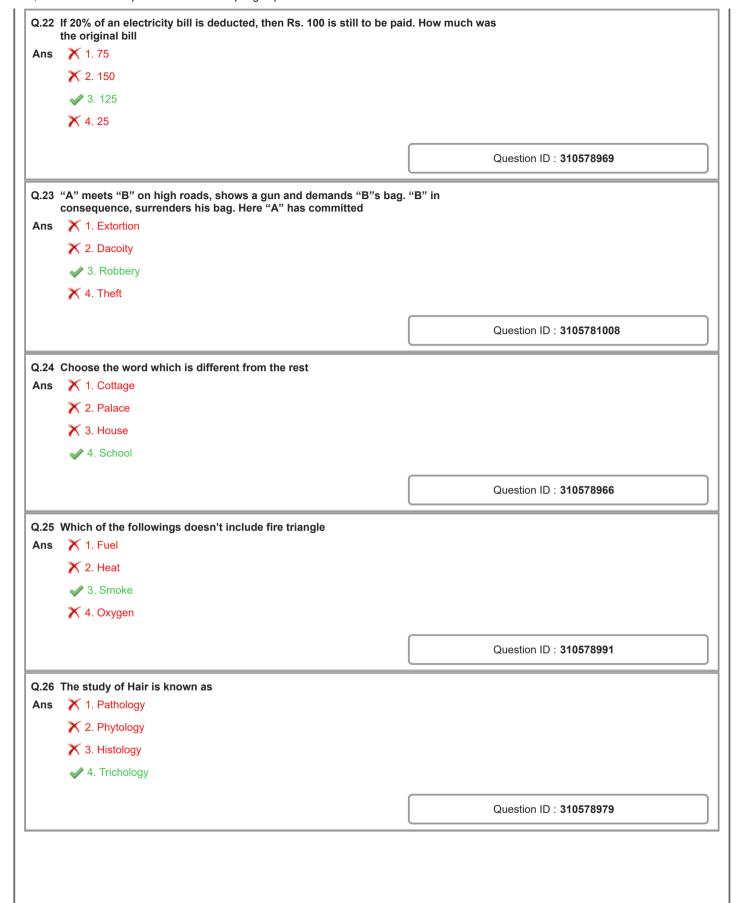
Option shown in green color with a tick icon is the correct answer.

Section: Aptitude in Forensic Sciences Q.1 The person Stas in Stas-Otto methods is X 1. Benzamine Servais Stas X 2. Mike Servais Stas 3. Jean Servais Stas X 4. Mathew Servais Stas Question ID: 310578972 Q.2 The headquarter of International Organization for Standardization is situated in X 1. Washington 2. Geneva X 3. Sydney X 4. England Question ID: 310578983 Q.3 Which of the following techniques is best known for studying Gunshot residue X 1. ATR-FTIR 2. SEM-EDX **X** 3. NMR X 4. GC-MS Question ID: 310578999 Q.4 Find the missing term: 6, 23, 40, ??, 74 Ans X 1.47 **X** 2. 67 **X** 3. 17 **4**. 57 Question ID: 310578968

Q.5	According to the Beer-lambert Law, on which of the following do depend	es absorbance not
Ans	✓ 1. Colour of the solution	
	X 2. Distance that the light has travelled through the sample	
	X 3. Extinction coefficient of the sample	
	★ 4. Solution concentration	
		Question ID : 310578995
Q.6	Which of the following deals with study of insects	
Ans	★ 1. Ornithology	
	✓ 2. Entomology	
	X 3. Cytogenetic	
	★ 4. Anthropology	
		Question ID : 310578988
		Quadrantia : 010010000
Q.7	CDTI stands for	
Ans	★ 1. Central Document Training Institute	
	★ 2. Centre Document Training Institute	
	✗ 3. Centre Detective Training Institute	
	✓ 4. Central Detective Training Institute	
		Question ID : 310578975
Q.8	What is the position of earth in our solar system	
Ans	X 1. Second	
	× 2. Fourth	
	X 3. First	
	✓ 4. Third	
		Question ID : 310578977
Q.9 Ans	CFSL Delhi comes under which of the followings 1. DFSS	
7119	X 2. DST	
	✓ 3. CBI	
	X 4. DRDO ✓ 4. DRDO	
		Question ID : 310578974



Q.16 NCRB stands for X 1. National Criminal Records Bureau X 2. New Criminal Records Bureau X 3. News Crime Records Bureau 4. National Crime Records Bureau Question ID: 310578987 Q.17 Identification system based on Anthropometry is known as X 1. Criminalistics X 2. Edgeoscopy X 3. Diatomology 4. Bertillonage Question ID: 310578980 Q.18 Which of the followings is not associated with the formal recognition of competence of a conformity assessment body by NABL X 1. International recognition Ans 💢 2. Robust Quality Management System 3. Timely promotion of the employees X 4. Time and money efficient Question ID: 310578986 Q.19 Section 45 in the Indian Evidence Act 1872 defines X 1. Opinions of Judge Ans X 2. Opinions of Police Personal X 3. Opinions of eye witness 4. Opinions of expert Question ID: 3105781009 Q.20 SARS-CoV-2 stands for X 1. Severe ailment respiratory syndrome coronavirus 2 Ans 2. Severe acute respiratory syndrome coronavirus 2 X 3. Severe aquatic respiratory syndrome coronavirus 2 ¥ 4. Severe amount respiratory syndrome coronavirus 2 Question ID: 310578961 Q.21 Pick the odd one out Ans X 1. K 🥒 2. I X 3. J X 4. L Question ID: 310578970



Q.27 What is the "Fear of Darkness" called X 1. Ophidiophobia X 2. Ablutophobia 3. Nyctophobia X 4. Arachnop Question ID: 310578984 Q.28 Proportion turns percentage when multiplied by Ans 🧳 1. 100 **X** 2. 1/100 **X** 3. 1/10 **X** 4. 10 Question ID: 3105781002 Q.29 The most repeated value in a data set is called X 1. Range Ans 2. Mode X 3. Median X 4. Mean Question ID: 3105781003 Q.30 The "Spiral" search pattern at scene of crime is used X 1. By starting at the most outward point and circling in X 2. By starting at the most inward point and searching back and forth until the outer edges are reached 3. By starting at the most inward point and slowly walking in increasing circles. X 4. By spinning around a bunch of times and using an "Oblong" technique Question ID: 310578989 Q.31 ILAC operates in accordance with ✓ 1. ISO/IEC 17011 X 2. ISO/IEC 17013 X 3. ISO/IEC 17014 X 4. ISO/IEC 17012 Question ID: 310578985 Q.32 When in UN day celebrated Ans X 1. October 21 X 2. June 24 3. October 24 X 4. June 21 Question ID: 310578981

_	Select correct word	
Ans	✓ 1. Desiccator	
	X 2. Dessicator	
	X 3. Dessiccator	
	X 4. Desicator	
		0 11 15 110
		Question ID : 310578965
Q.34	The square of the standard deviation is called	
Ans	X 1. Mode	
	★ 2. 2nd quartile	
	X 3. Harmonic mean	
	✓ 4. Variance	
		Question ID : 3105781006
Q.35	Medullary index in animal hair is	
Ans	★ 1. None of these	
	★ 2. Less than 0.3	
	X 4. Exactly 0.3	
		Question ID : 310578998
Q 36	Forensic photography of bite marks should be done using	
Ans	✓ 1. ABFO scale	
	X 2. FBI scale	
	X 3. CBI scale	
	✗ 3. CBI scale✗ 4. FSL scale	
	✗ 3. CBI scale✗ 4. FSL scale	
		Question ID: 3105781000
0.27	★ 4. FSL scale	
	★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo	
Q.37 Ans	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ★ 1. Sonam Malik 	
	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ★ 1. Sonam Malik ★ 2. Pooja Rani 	
	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ★ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok 	
	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ★ 1. Sonam Malik ★ 2. Pooja Rani 	
	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ★ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok 	
Ans	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ★ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok ★ 4. P.V. Sindhu 	Olympic 2020 Question ID : 310578962
Ans	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ↑ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok ★ 4. P.V. Sindhu The number of times each value appears is called the value.	Olympic 2020 Question ID : 310578962
Ans	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo (**) ★ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok ★ 4. P.V. Sindhu The number of times each value appears is called the value (**) ★ 1. Range 	Olympic 2020 Question ID : 310578962
Ans	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ↑ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok ★ 4. P.V. Sindhu The number of times each value appears is called the value? ★ 1. Range ★ 2. Standard Deviation 	Olympic 2020 Question ID : 310578962
Ans	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ↑ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok ★ 4. P.V. Sindhu The number of times each value appears is called the value ↑ 1. Range ★ 2. Standard Deviation ★ 3. Frequency 	Olympic 2020 Question ID : 310578962
Ans	 ★ 4. FSL scale Who was the first Indian women Golfer to qualify for Tokyo ↑ 1. Sonam Malik ★ 2. Pooja Rani ★ 3. Aditi Ashok ★ 4. P.V. Sindhu The number of times each value appears is called the value? ★ 1. Range ★ 2. Standard Deviation 	Olympic 2020 Question ID : 310578962

Q.39 Forensic expert during crime scene visit should not be X 1. Confidential 2. Babbling X 3. Skilled X 4. Ethical Question ID: 3105781010 Q.40 Which of the following CFSLs was established in year 1967 Ans X 1. Pune X 2. Bhopal 3. Hyderabad X 4. Guwahati Question ID: 310578971 Q.41 ABFO stands for X 1. American Bureau of Forensic Orthopedics Ans X 2. American Bureau of Forensic Odontologists X 3. American Bureau of Forensic Odontology 4. American Board of Forensic Odontology Question ID: 310578976 Q.42 BIOS in computer science means ✓ 1. Basic Input Output System X 2. Board Input Output System X 3. Binary Input Output System X 4. Broad Input Output System Question ID: 310578997 Q.43 On which of the following does the critical value for a Chi-square statistic rely X 1. The sum of the frequencies X 2. The row totals X 3. The number of variables 4. The degrees of freedom Question ID: 3105781001 Q.44 Who are the beneficiaries of OROP scheme Ans X 1. Sportspersons X 2. Teachers 3. Bureaucrats 4. Armed forces Veterans Question ID: 310578963

2.45	We were not alone in the room. He sat me. There were other us.	s there
Ans	★ 1. Next, between	
	X 2. Be, besides	
	X 4. Besides, beside	
		Question ID : 310578964
Q.46	The Information Technology Act (also known as ITA) was enacted	in
Ans	✓ 1. 2000	
	X 2. 2001	
	X 3. 2002	
	X 4. 2003	
		Question ID : 3105781007
Q.47	When a dead body is found at the scene, the most immediate cond	ern is
Ans	★ 1. Identifying the victim	
	2. Preserving and securing the crime scene	
	X 3. Interviewing family members	
	X 4. Collection of evidences	
		Question ID : 310578990
Q.48	AFIS stands for	
Ans	★ 1. Automatic Fingerprint Identification System	
	★ 2. Algorithm Fingerprint Identification System	
	✗ 3. Actual Fingerprint Identification System	
	4. Automated Fingerprint Identification System	
		Question ID : 310578993
	Which scope of accreditation of NABL is not applicable in the Fore	ensic Science
Ans	★ 1. Chemistry	
	★ 2. Toxicology	
	✓ 3. Medicine	
	X 4. Biology	
		Question ID - 240579092
		Question ID : 310578982

Q.50 Ridge characteristics in fingerprint are called as Ans X 1. Ridge Tracing X 2. Forensic Details X 3. Ridge counting 4. Galton's Details Question ID: 310578992 Section: Forensic Physical Sciences Q.51 Which types of cable are used when installing video surveillance components? X 1. RG-6 and RG-58 X 2. RG-59 and RG-58 X 4. RG-8 and RG-59 Question ID: 3105781070 Q.52 Etchant prescribed for steel surface is 1. Gold X 2. Nitric acid X 3. Copper X 4. Iron Question ID: 3105781058 Q.53 The function of the "color burst" is to: 1. All of these X 2. To synchronize the color demodulation line by line X 3. Detect the presence of a color video signal X 4. Regenerate the color sub-carrier Question ID: 3105781069 Q.54 What is PEP? ✓ 1. Positive expanding point X 2. Positive elevating point X 3. Possible expanding point X 4. Possible elevating point Question ID: 3105781030

Q.55 Ballooning effect test is a characteristic of 1. Cotton fiber X 2. Nylon fiber X 3. Manila fiber X 4. Coir fiber Question ID: 3105781049 Q.56 Statement A: Whilst was more stable than mercury fulminate. Statement B: Whilst was non-corrosive in nature. X 1. Both are false. 2. Statement A is true and statement B is false. X 3. Statement B is true and statement A is false. X 4. Both are true. Question ID: 3105781026 Q.57 What are the three types of cone cells? a. S- cells b. M cells c. L- cells d. N- cells Ans X 1. both (c) and (d) X 2. both (a) and (b) √ 3. (a), (b), and (c) X 4. (a), (c) and (d) Question ID: 3105781072 Q.58 Hampi denomination is present in which Indian currency-Ans X 1. 10 **2**. 50 **X** 3. 200 **X** 4. 2000 Question ID: 3105781012 Q.59 In atomic emission spectroscopy the emission due to the electronic transition of X 1. Singlet ground state to singlet exited state 2. Singlet ground state to triplet exited state 3. singlet exited state to singlet ground state X 4. Triplet exited state to singlet ground state. Question ID: 3105781044

Q.60 For a particular vibrational mode to appear in the Raman spectrum, what must change X 1. Frequency of radiation X 2. Intensity of radiations X 3. Molecule's shape 4. Molecule polarizability Question ID: 3105781041 Q.61 Which of the following statements is incorrect about the hierarchal clustering? 1. All of these Ans X 2. In general, the splits and merges both are determined in a greedy manner X 3. The hierarchal type of clustering is also known as the HCA X 4. The choice of an appropriate metric can influence the shape of the cluster Question ID: 3105781052 Q.62 In the context of the Bayesian approach to the evaluation of evidence, three levels of proposition may be recognized. These are X 1. scene, activity and offence. Ans 2. source, activity and offence X 3. source, accused and offence 4. source, activity and offender Question ID: 3105781059 Q.63 After bomb scene debris has been examined microscopically, the next step is to X 1. Examine explosive using AAS ✓ 2. Rinse the recovered debris with acetone to separate the debris from explosive material X 3. Utilize H1-NMR to fingerprint the explosive residue X 4. Identify the detonating material with SEM-EDX Question ID: 3105781080 Q.64 Which one of these statistics is unaffected by outliers? Ans X 1. Mean X 2. Range 3. Interquartile range ¥ 4. Standard deviation Question ID: 3105781062 Q.65 Backscattered electron imaging is used to examine the Ans X 1. Specimen size 2. Topography 3. Surface morphology X 4. Elemental state Question ID: 3105781056

Q.66 Which of the following is correct? ✓ 1. Prior odds x likelihood ratio = posterior odds X 2. Posterior odds x likelihood ratio = prior odds X 3. Prior odds + likelihood ratio = posterior odds X 4. Prior odds - likelihood ratio = posterior odds Question ID: 3105781061 Q.67 What is the first step in the accident study? Ans X 1. Accident investigation X 2. Accident reconstruction 3. Accident data collection X 4. Accident data analysis Question ID: 3105781063 Q.68 In atomic absorption spectroscopy the most strongly absorbed light is called as √ 1. Resonance line X 2. Stokes line X 3. Base line X 4. Anti-stokes line Question ID: 3105781045 Q.69 The spacing between characters in case of pica is? X 1. 255 mm per 100 characters X 2. 256 mm per 100 characters X 3. 257 mm per 100 characters Question ID: 3105781023 Q.70 Electron microscope was invented by X 1. Wilkinson in 1985 X 2. Taylor in 1965 3. Ruska in 1931 X 4. Mayer in 1883 Question ID: 3105781055

	which of the following optical properties are used to compare the fa. Sign of elongation b. Pleochroism	iber:
	c. Birefringence d. Isotropic refractive index	
Ans	X 1. a and b	
	X 2. a and d	
	★ 3. a, b and c	
	✓ 4. a, b, c and d	
		Question ID : 3105781054
Q.72	Auger electron spectroscopy can be used for surface chemical and similar to which of the following?	alysis in a way
Ans	✓ 1. ESCA	
	X 2. AES	
	✗ 3. ICP-AES	
	X 4. Ion spectroscopy	
		Question ID : 3105781048
Q.73	Identify the most important features we look for in a CCTV DVR? a. Number of cameras supported, i.e. number of video inputs. b. Recording at how many frames per second (fps). c. Circuit board with software burned into its processor chip. d. Network connection / remote viewing capability e. The control circuit is found on the camera lens	
Ans	✓ 1. (a), (b), and (d)	
	★ 2. Both (a) and (b)	
	★ 3. (a), (c) and (d)	
	★ 4. (a), (b), (c) and (d)	
		Question ID : 3105781071
Q.74	Puppe's Rule' helps in determination of:	
Ans	★ 1. Identity of fire arm	
	2. Nature of injury caused by fire arm	
	✗ 3. Range of fire arm	
	★ 4. Sequence in which shots were fired	
		Question ID : 3105781035
Q.75 Ans	Imagine a case in which police recovered 125 tablets of suspected which of the following categories does this data belong? 1. Continuous	illicit drugs. To
	X 2. Qualitative	
	X 3. Nominal	
	✓ 4. Discrete quantitative	

	Which of the following cannot be conserved during Raman scattering?		
Ans	X 1. Momentum		
	✓ 2. Kinetic energy		
	X 3. Electronic energy		
	X 4. Total energy		
		Question ID : 3105781040	
Q.77	ASSERTION – Changing the vocal tracts and changing its resonanc REASON - when the person produce vowel so the shape of the voca different resonance.	e frequency. Il tract produce	
Ans	✓ 1. Both are true but R is better explanation than A		
	X 2. Both are true but R is not better explanation than A		
	★ 3. Both A and R false		
	★ 4. A false and R true		
		Question ID : 3105781065	
	Who gave the procedure for the classification of Handwriting on the form, speed, spacing, size and slant?	basis of pressure,	
Ans	1. Livingston		
	X 2. Harvey		
	X 3. Quirke		
	✓ 4. T.L. Smith		
	·		
		Question ID : 3105781014	
Q.79	Which of the following is not a Video enhancement technique?		
Ans	★ 1. Demultiplexing		
	★ 2. Interlacing		
	✓ 3. Compression		
	★ 4. Masking		
		Question ID : 3105781051	
Q.80	Mull technique is used for the sampling of		
Ans	X 1. Gel		
	★ 2. Gases		
	★ 3. Liquids		
	✓ 4. Solids		
		Question ID : 3105781050	

Q.81 The NMR spectroscopy is useful for the detection of X 1. Geometrical isomers X 2. Aromaticity X 3. Hydrogen bonding 4. All of these Question ID: 3105781043 Q.82 The nigrosine dyes are present in? Ans 1. Dyestuff inks X 2. Logwood inks X 3. Iron Tannate inks X 4. Ball pen inks Question ID: 3105781021 Q.83 NMR spectra are observed in theregion X 1. IR Ans 2. Radio frequency X 3. Microwave X 4. X-ray Question ID: 3105781042 Q.84 Sulphocyanic acid fuming technique for the restoration of document by fuming was developed by? X 1. Albert S. Osborn Ans X 2. Henry 3. M.E.O. Neill X 4. Foster Question ID: 3105781013 Q.85 What TAPPI stands for X 1. The Association of Police Protection Inc. Ans 2. Technical Association of the Pulp & Paper Industry X 3. Technical Association of Power Point Imaging X 4. The Association of Pulp & Paper Industry Question ID: 3105781033

Q.86 Which has the potential to add further compression to a file, re-wrapping or transcoding? X 1. Time conversion tool X 2. Staircasing X 3. GOP=5 4. Transcoding Question ID: 3105781073 Q.87 Which part of human ear converts sound vibrations into electrical signals X 1. Tympanic membrane X 2. Hammer 3. Cochlea X 4. Stirrup Question ID: 3105781067 Q.88 Logwood ink is extracted from which tree? X 1. Pyrus calleryana X 2. Acer negundo X 3. Acer ginnala 4. Haematoxylon campechianum Question ID: 3105781015 Q.89 Which one of the following is not a reason for slightly unstable condition of bullet after leaving the barrel: X 1. Nutation Ans 2. Momentum X 3. Yaw X 4. All of them are the reasons. Question ID: 3105781027 Q.90 Potassium ferrocyanide is used for the decipherment of secret writing comprising of? √ 1. Copper, zinc, iron Ans X 2. Copper, aluminum, zinc X 3. Iron, silver, copper X 4. Zinc, silver, iron Question ID: 3105781018

Q.0.	Statement A: The critical angle for a given bullet type/target medium is velocity dependent. Statement B: Bullets will invariably lose their gyroscopic stability and tumble after ricocheting.		
Ans	✓ 1. Statement B is true and statement A is false.		
	🔀 2. Both are false.		
	✗ 3. Statement A is true and statement B is false.		
	★ 4. Both are true.		
		Question ID : 3105781028	
Q.92	The particle size of toner used in printer for 600 DPI lie	es in the range of	
Ans	X 1. 1-3 μm		
	× 2. 4-6 μm		
	★ 3. 2-4 µm		
	√ 4. 8-10 μm		
		Question ID : 3105781017	
Ans	The database designed for collection, restoration and 1. NIST 2. AFTE 3. NBTRD 4. TRAX	Question ID : 3105781057	
Q.94 Ans	The flameless ignition temperature of Pyrodex is? ✓ 1. 400° C ✓ 2. 500° C ✓ 3. 200° C	Quodini 12 : 0 root 0 root	
	✓ 1. 400° CX 2. 500° C	Question ID : 3105781031	
Ans	 ✓ 1. 400° C ✓ 2. 500° C ✓ 3. 200° C ✓ 4. 300° C Photon detectors for IR are made of semiconducting management of the semiconduction of the semiconducting management of the semicond	Question ID : 3105781031	
Ans	 ✓ 1. 400° C ✓ 2. 500° C ✓ 3. 200° C ✓ 4. 300° C Photon detectors for IR are made of semiconducting m ✓ 1. Lithium niobate 	Question ID : 3105781031	
Ans	 ✓ 1. 400° C ✓ 2. 500° C ✓ 3. 200° C ✓ 4. 300° C Photon detectors for IR are made of semiconducting m ✓ 1. Lithium niobate ✓ 2. Triglycine sulphate 	Question ID : 3105781031	
Ans	 ✓ 1. 400° C ✓ 2. 500° C ✓ 3. 200° C ✓ 4. 300° C Photon detectors for IR are made of semiconducting m ✓ 1. Lithium niobate 	Question ID : 3105781031	
Ans	 ✓ 1. 400° C ✓ 2. 500° C ✓ 3. 200° C ✓ 4. 300° C Photon detectors for IR are made of semiconducting m ✓ 1. Lithium niobate ✓ 2. Triglycine sulphate ✓ 3. Indium antimonide 	Question ID : 3105781031	

	Which is considered to be the poorest type of movement in h	andwriting-:
Ans	X 1. Wrist movement	
	X 2. Full arm movement	
	X 3. Thumb movement	
	4. Finger movement	
		Question ID : 3105781011
	Who first used the term Nanotechnology	
Ans	X 1. Eric Drexler	
	X 2. Sumio Lizima	
	3. Professor Norio Taniguchi	
	★ 4. Richard Feynman	
		Question ID : 3105781075
Q.98	is a mineral fibre.	
Ans	★ 1. Angora	
	X 2. Mohair	
	★ 4. Nylon	
		Question ID : 3105781046
Ans	 ★ 1. 15 – 18 lbs ★ 2. 4 – 7 lbs ★ 3. 12 – 15 lbs 	
	★ 4. 9 – 12 lbs	Question ID : 3105781034
Q.100	What ratio decides the efficiency of Nano substances?	
Ans	★ 1. Weight/Volume ratio	
	2. Surface area/Volume ratio	
	X 3. Volume/Weight ratio	
	X 4. Pressure/Volume ratio	
	4. Flessure/Volume ratio	
	4. Flessure/volume failo	Question ID : 3105781076
	The reaction between Fe(II) and ferrozine is catalyzed by :	Question ID : 3105781076
Q.101 Ans	The reaction between Fe(II) and ferrozine is catalyzed by :	Question ID : 3105781076
	The reaction between Fe(II) and ferrozine is catalyzed by :	Question ID : 3105781076
	The reaction between Fe(II) and ferrozine is catalyzed by : ✓ 1. Short-wave UV light ✓ 2. Long-wave UV light ✓ 3. Short-wave X-rays	Question ID : 3105781076
	The reaction between Fe(II) and ferrozine is catalyzed by :	Question ID : 3105781076

Q.102 What is TTI? Ans X 1. Tangential terminal identifier X 2. Transferring terminal identifier 3. Transmitting terminal identifier ¥ 4. Tangential transferring identifier Question ID: 3105781022 Q.103 Ammunition is defined under which section of IPC-X 1. Section 2-1[a] IPC 2. Section 2-1[b] IPC X 3. Section 7[b] IPC X 4. Section 7[a] IPC Question ID: 3105781024 Q.104 Compton effect is ✓ 1. In which the energy of a photon is reduced and that of an electron is increased. Ans X 2. In which the energy of an electron is reduced and that of photon is increased X 3. In which the energy of a photon and electron is decreased. X 4. In which the energy of a photon and electron is neither increased nor decreased Question ID: 3105781036 Q.105 Polarisability decreases as 1. Both b and c X 2. Length of bond decreases X 3. Electron density decreases X 4. Electron density increases Question ID: 3105781039 Q.106 The composition of Lesmok is? X 1. 75 percent black powder and 25 percent gun cotton X 2. 80 percent black powder and 20 percent gun cotton X 3. 70 percent black powder and 30 percent gun cotton 4. 85 percent black powder and 15 percent gun cotton Question ID: 3105781032

Q.107 Nuclear magnetic resonance which arises from Ans X 1. None of these X 2. Transition between the nuclear spin energy level of a molecule arising from the interaction of the unsymmetrical charge distribution in nuclei with the magnetic field. X 3. Transition induces between the electro spin energy levels of a molecule in an applied magnetic field. Question ID: 3105781037 Q.108 What is the most prominent characteristic of wrist writing? X 1. Non-alignment X 2. Connecting strokes 3. Tapering terminals X 4. Blunt terminals Question ID: 3105781019 Q.109 What is the average of the vocal tract in a man? √ 1. 17mm X 2. 30mm X 3. 10mm X 4. 25mm Question ID: 3105781064 Q.110 The melting point of Vicara fiber is Ans X 1. 288-300 °C 2. 265-275 °C X 3. 245- 260°C X 4. 192-210 °C Question ID: 3105781053 Q.111 Typewritten material can be erased using? 1. Petroleum ether Ans X 2. Propanol X 3. Ethanol X 4. Ethyl Acetate Question ID: 3105781016

	Which of the following scientists who invented the digital ima awarded the Nobel Prize in 2009?	
Ans	✓ 1. Williard S. Boyle and George E. Smith	
	X 2. Atella and Dawon kahng	
	X 3. Nasir Ahmed	
	X 4. David Teter	
		Question ID : 3105781074
Q.113	The weaver choke reduces the recoil upto-	
Ans	X 1. 6-10 percent	
	X 2. 2-3 percent	
	★ 3. 2-7 percent	
	√ 4. 8-13 percent	
		Question ID : 3105781025
	The effect 'squash' is related with which of the following print	ting methods?
Ans	★ 1. Lithography✓ 2. Letterpress	
	X 3. Photogravure	
	X 4. Gravure	
	4. Glavule	
		Question ID : 3105781020
Ans	X 1. DotX 2. None of theseX 3. Pic✓ 4. Pixel	
	4. FIXEI	
	4. FIXEI	Question ID : 3105781068
Q.116 : Ans	Standard Consistency of the cement sample can be measured 1. Gauge Trowel 2. XRD 3. Vicat Apparatus 4. SEM	
	Standard Consistency of the cement sample can be measured 1. Gauge Trowel 2. XRD 3. Vicat Apparatus	
Ans Q.117	Standard Consistency of the cement sample can be measured 1. Gauge Trowel 2. XRD 3. Vicat Apparatus 4. SEM HMM is a statistical method of characterizing the 1. Spectral properties of frames 2. Classical pattern classifier 3. None of these	d using
Ans	Standard Consistency of the cement sample can be measured 1. Gauge Trowel 2. XRD 3. Vicat Apparatus 4. SEM HMM is a statistical method of characterizing the 1. Spectral properties of frames 2. Classical pattern classifier	d using

