

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

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

Section : Aptitude in Forensic Sciences

Q.1 What is "Mean" of the 1,3,5,7,9

Ans ☒ 1. 9

☒ 2. 3

☒ 3. 7

☒ 4. 5

Question ID : 310578642

Q.2 The Headquarters of NABL secretariat is situated at

Ans ☒ 1. Chennai

☒ 2. Gurugram

☒ 3. Bangaluru

☒ 4. Kolkata

Question ID : 310578622

Q.3 Probability in mathematics means

Ans ☒ 1. The chance that the given event will occur

☒ 2. Average of the total number

☒ 3. Standard error of the given data set

☒ 4. The chance that the given event will not occur

Question ID : 310578643

Q.4 Random sampling is also known as

Ans ☒ 1. Precision sampling

☒ 2. Population sampling

☒ 3. Probability sampling

☒ 4. Proper sampling

Question ID : 310578644

Q.5 Police inquest is conducted under section

- Ans ☒ 1. 174 IPC
- ☒ 2. 174 CrPC
- ☒ 3. 176 IPC
- ☒ 4. 176 CrPC

Question ID : 310578611

Q.6 Deepak walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position ?

- Ans ☒ 1. 30 km
- ☒ 2. 10 km
- ☒ 3. 20 km
- ☒ 4. 40 km

Question ID : 310578607

Q.7 Choose the different word

- Ans ☒ 1. Crocodile
- ☒ 2. Snake
- ☒ 3. Frog
- ☒ 4. Lizard

Question ID : 310578606

Q.8 A pre-assessment visit of the CAB is organized by _____ appointed by NABL.

- Ans ☒ 1. Lead Observer
- ☒ 2. Lead Director
- ☒ 3. Lead Technician
- ☒ 4. Lead Assessor

Question ID : 310578624

Q.9 Proof of proper chain of custody procedures allows

- Ans ☒ 1. Evidence collection
- ☒ 2. Evidence to be admitted to court
- ☒ 3. Evidence analysis
- ☒ 4. Evidence packaging

Question ID : 310578620

Q.10 BIS stands for

- Ans
- ☐ 1. Bureau of Internal Standards
 - ☐ 2. Bureau of International Standards
 - ☐ 3. Bureau of Innovation Standards
 - ☒ 4. Bureau of Indian Standards

Question ID : 310578628

Q.11 The first Forensic Science Laboratory in India was set-up at

- Ans
- ☒ 1. Calcutta
 - ☐ 2. Hyderabad
 - ☐ 3. Chennai
 - ☐ 4. Delhi

Question ID : 310578612

Q.12 Find the missing term: 125, 250, ???, 400

- Ans
- ☒ 1. 375
 - ☐ 2. 200
 - ☐ 3. 100
 - ☐ 4. 275

Question ID : 310578608

Q.13 ICP-MS stands for

- Ans
- ☐ 1. Inductively Conducted Plasma Mass Spectrometry
 - ☐ 2. Inductively Cooled Plasma Mass Spectrometry
 - ☐ 3. Inductively Collected Plasma Mass Spectrometry
 - ☒ 4. Inductively Coupled Plasma Mass Spectrometry

Question ID : 310578632

Q.14 Which of the following is related with NABL accreditation

- Ans
- ☐ 1. Profile Testing
 - ☐ 2. Proper Testing
 - ☐ 3. Program Testing
 - ☒ 4. Proficiency Testing

Question ID : 310578629

Q.15 If, Bird: Wings, choose correct relationship of the following pairs

- Ans
- ☐ 1. Whale: Water
 - ☐ 2. Pen: Paper
 - ☒ 3. Car: Wheel
 - ☐ 4. Dog: Lungs

Question ID : 310578609

Q.16 The laboratory accreditation services to testing and calibration laboratories are provided in accordance with

- Ans ☒ 1. ISO/IEC 17026
☒ 2. ISO/IEC 17023
☒ 3. ISO/IEC 17025
☒ 4. ISO/IEC 17024

Question ID : 310578627

Q.17 Measurement close to a True value is known as

- Ans ☒ 1. Average
☒ 2. Precise
☒ 3. Error
☒ 4. Accurate

Question ID : 310578639

Q.18 The Daubert test required that the trial judge make the determination based on one of the following factors

- Ans ☒ 1. The science mu be hypothetical
☒ 2. The science must be valid
☒ 3. The science must be social
☒ 4. The science must be rigorous

Question ID : 310578649

Q.19 NABL accreditation system is established in accordance with

- Ans ☒ 1. ISO/IEC 17012
☒ 2. ISO/IEC 17013
☒ 3. ISO/IEC 17011
☒ 4. ISO/IEC 17014

Question ID : 310578630

Q.20 CAB shall apply for renewal of accreditation of NABL at least _____ months before the expiry of the validity of accreditation.

- Ans ☒ 1. 3 months
☒ 2. 12 months
☒ 3. 6 months
☒ 4. 9 months

Question ID : 310578626

Q.21 APLAC stands for

- Ans ☒ 1. Asia Pacific Laboratory Audit cooperation
- ☒ 2. Asia Pacific Laboratory Accreditation Cooperation
- ☒ 3. America pacific Laboratory Audit Cooperation
- ☒ 4. America Pacific Laboratory Accreditation Cooperation

Question ID : 310578623

Q.22 The component of a computer that connects the processor to the other hardware is known as

- Ans ☒ 1. Printer
- ☒ 2. Keyboard
- ☒ 3. Mouse
- ☒ 4. Motherboard

Question ID : 310578634

Q.23 Causing hurt by means of poison, etc., with intent to commit as offence is covered under

- Ans ☒ 1. Section 328 in the India Penal Code
- ☒ 2. Section 528 in the India Penal Code
- ☒ 3. Section 228 in the India Penal Code
- ☒ 4. Section 428 in the India Penal Code

Question ID : 310578648

Q.24 The patient was cured _____ Malaria.

- Ans ☒ 1. Through
- ☒ 2. Of
- ☒ 3. For
- ☒ 4. From

Question ID : 310578605

Q.25 Which of the following is a type of ballistics evidence

- Ans ☒ 1. Hair
- ☒ 2. Blood
- ☒ 3. Bullet
- ☒ 4. Drug

Question ID : 310578618

Q.26 Opinions of “Experts” falls under

- Ans ☒ 1. Section 45 in the India Evidence Act, 1872
- ☐ 2. Section 44 in the India Evidence Act, 1872
- ☐ 3. Section 47 in the India Evidence Act, 1872
- ☐ 4. Section 46 in the India Evidence Act, 1872

Question ID : 310578647

Q.27 A parameter is a measure which is computed from

- Ans ☐ 1. Analyzed data
- ☐ 2. Test statistics
- ☒ 3. Population data
- ☐ 4. Sample data

Question ID : 310578641

Q.28 Meaning of Standard deviation is

- Ans ☐ 1. How far are the data points form the range
- ☐ 2. How near are the data points from the range
- ☒ 3. How far are the data points form the mean
- ☐ 4. How near are the data points from the mean

Question ID : 310578646

Q.29 Which of the following terms is not related with handwriting identification in legal cases.

- Ans ☒ 1. Trail
- ☐ 2. Hiatus
- ☐ 3. Line quality
- ☐ 4. Spacing

Question ID : 310578637

Q.30 Select correct word

- Ans ☐ 1. Aceeleration
- ☐ 2. Accelaration
- ☒ 3. Acceleration
- ☐ 4. Aceleration

Question ID : 310578604

Q.31 Which microscope is used for comparing bullets

- Ans ☐ 1. Phase contrasts microscope
- ☐ 2. Polarized microscope
- ☐ 3. Compound microscope
- ☒ 4. Comparison microscope

Question ID : 310578638

Q.32 Who won Bronze medal in Badminton in Tokyo Olympics 2020

- Ans ☒ 1. Neeraj Chopra
- ☒ 2. Ravi Kumar
- ☒ 3. Bajrangpunia
- ☒ 4. P.V. Sindhu

Question ID : 310578602

Q.33 Calvin Hooker Goddard was a forensic scientist best-known for his contribution in

- Ans ☒ 1. DNA Forensic
- ☒ 2. Forensic Ballistics
- ☒ 3. Forensic Toxicology
- ☒ 4. Forensic Anthropology

Question ID : 310578616

Q.34 Locard's principle specifically deals with

- Ans ☒ 1. Exchange of evidence
- ☒ 2. Production of evidence
- ☒ 3. Analysis of evidence
- ☒ 4. Collection of evidence

Question ID : 310578615

Q.35 Corroborative Evidence

- Ans ☒ 1. Refutes other evidence
- ☒ 2. Supports other evidence
- ☒ 3. Links an individual with a particular location
- ☒ 4. Associates an individual with another individual

Question ID : 310578617

Q.36 Which of the following is an output device of a computer

- Ans ☒ 1. Mouse
- ☒ 2. Keyboard
- ☒ 3. Joy stick
- ☒ 4. Printer

Question ID : 310578635

Q.37 Mirror is to Reflection as Water is to

- Ans ☒ 1. Immersion
- ☒ 2. Dispersion
- ☒ 3. Conduction
- ☒ 4. Refraction

Question ID : 310578610

Q.38 Who invented Chromatography

- Ans ☒ 1. Mikhail Kalashnikov
- ☒ 2. Mikhail Hendricks
- ☒ 3. Mikhail Tsvet
- ☒ 4. Mikhail Baryshnikov

Question ID : 310578631

Q.39 Which of the following Indian state does not share its border with Myanmar

- Ans ☒ 1. Arunachal Pradesh
- ☒ 2. Manipur
- ☒ 3. Assam
- ☒ 4. Nagaland

Question ID : 310578603

Q.40 The word ethics is related with

- Ans ☒ 1. Behavior
- ☒ 2. Knowledge
- ☒ 3. Physique
- ☒ 4. Judgment

Question ID : 310578650

Q.41 In Thin layer chromatography the mobile phase is

- Ans ☒ 1. Gas
- ☒ 2. Gel
- ☒ 3. Solid
- ☒ 4. Liquid

Question ID : 310578633

Q.42 CAB in NABL accreditation stands for

- Ans ☒ 1. Controlling Assessment Body
- ☒ 2. Conformity Auditory Body
- ☒ 3. Controlling Auditory Body
- ☒ 4. Conformity Assessment Body

Question ID : 310578625

Q.43 Which of the following state/UT doesn't have a CFSL

- Ans ☒ 1. Assam
- ☒ 2. Chandigarh
- ☒ 3. Gujarat
- ☒ 4. West Bengal

Question ID : 310578614

Q.44 RFSL Stands for

- Ans ☒ 1. Regional forensic Science Laboratory
- ☐ 2. Rapid Forensic Science Laboratory
- ☐ 3. Railway forensic Science Laboratory
- ☐ 4. Road Forensic Science Laboratory

Question ID : 310578613

Q.45 Fingerprints examination is also termed as

- Ans ☐ 1. Trichology
- ☐ 2. Palynology
- ☐ 3. Entomology
- ☒ 4. Dactyloscopy

Question ID : 310578621

Q.46 DNA is negatively charged because of the presence of

- Ans ☒ 1. Phosphate groups in nucleotides
- ☐ 2. Bromated groups in nucleotides
- ☐ 3. Chlorate groups in nucleotides
- ☐ 4. Sulphate groups in nucleotides

Question ID : 310578636

Q.47 Which of the following vaccine is not related with COVID19

- Ans ☐ 1. Covaxin
- ☒ 2. Hep.B
- ☐ 3. Sputnik V
- ☐ 4. Covishield

Question ID : 310578601

Q.48 Difference between the maximum and minimum values of the given observation is called

- Ans ☒ 1. Range
- ☐ 2. Degree of freedom
- ☐ 3. Average
- ☐ 4. Standard deviation

Question ID : 310578645

Q.49 Sampling in any population study is conducted because it is

- Ans ☐ 1. Biased
- ☐ 2. Expensive
- ☒ 3. Time – efficient
- ☐ 4. Difficult

Question ID : 310578640

Q.50 Crime Scene Investigation doesn't involves

- Ans ☒ 1. Notes
- ☒ 2. Sketches
- ☒ 3. Photography
- ☒ 4. Exhibits opening

Question ID : 310578619

Section : Forensic Physical Sciences

Q.51 Refractive Index of Diamond is

- Ans ☒ 1. 2.9
- ☒ 2. 2.52
- ☒ 3. 2.41
- ☒ 4. 2.12

Question ID : 310578691

Q.52 Fine carbonaceous material in the discharge residues are known as :

- Ans ☒ 1. Gunshot Residue
- ☒ 2. Bullet wipe mark
- ☒ 3. Scorches
- ☒ 4. Blackening

Question ID : 310578665

Q.53 Which one of the following variables is not categorical?

- Ans ☒ 1. Marital status of a person (single, married, divorced, other)
- ☒ 2. Choice on a test item: true or false
- ☒ 3. Gender of a person: male or female
- ☒ 4. Age of a person

Question ID : 310578694

Q.54 Method of removing Serial number from stolen weapon by hammering of the surface with a round punch to completely hide the number. :

- Ans ☒ 1. Over stamping
- ☒ 2. Grinding
- ☒ 3. Peening
- ☒ 4. Centre punching

Question ID : 310578666

Q.55 Computers can be involved in which of the following types of crime?

- a. Homicide and sexual assault
- b. Computer intrusions and intellectual property theft
- c. Civil disputes
- d. Phishing

Ans ☒ 1. a, c and d
☒ 2. both a and b
☒ 3. a, b, c and d
☒ 4. a, b, and d

Question ID : **310578714**

Q.56 Which of the following is a principle component of dynamite-

Ans ☒ 1. TNT
☒ 2. RDX
☒ 3. Nitro-glycerine
☒ 4. Black powder

Question ID : **310578660**

Q.57 Tiny dots combine to form a digital image called?

Ans ☒ 1. Electrolyte
☒ 2. Cell
☒ 3. Resolution
☒ 4. Pixel

Question ID : **310578706**

Q.58 Smokeless gun powder is

Ans ☒ 1. Nitrocellulose, Sulphur, and Charcoal
☒ 2. Potassium nitrate, Sulphur & Nitroglycerine
☒ 3. Nitrocellulose & Nitroglycerine
☒ 4. Potassium nitrate, Sulphur, and Charcoal

Question ID : **310578673**

Q.59 Which type of identification marks on metal surface cannot be restored after obliteration

Ans ☒ 1. Punched marks
☒ 2. Engraved marks
☒ 3. Over
☒ 4. Cast marks

Question ID : **310578687**

**Q.60 Statement A: Sectional Density of bullet decreases with decrease in Diameter of bullet
Statement B: Sectional Density of bullet increases with Increase in Weight of bullet**

- Ans**
- ☐ 1. Both are true.
 - ☐ 2. Statement A is true and statement B is false.
 - ☐ 3. Both are false.
 - ☒ 4. Statement B is true and statement A is false.

Question ID : 310578663

Q.61 Resistance is a variable that relates flow and pressure accordance of important law called?

- Ans**
- ☐ 1. Baye's theorem
 - ☐ 2. Lombard effect
 - ☐ 3. Fundamental law
 - ☒ 4. Ohm's law

Question ID : 310578699

Q.62 The "fingerprint" IR spectrum can be seen using:

- Ans**
- ☐ 1. Polarizing microscope
 - ☐ 2. Scanning electron microscope
 - ☐ 3. Stereoscopic microscope
 - ☒ 4. Micro-spectrophotometer

Question ID : 310578671

Q.63 The acidification in Indian ink is majorly due to the addition of which component?

- Ans**
- ☐ 1. Hydrochloric Acid
 - ☐ 2. Iodine
 - ☐ 3. Silver Nitrate
 - ☒ 4. Ammonia

Question ID : 310578651

Q.64 Which of the following procedure of accident data collection involves obtaining information such as measurement of skid marks?

- Ans**
- ☐ 1. Cause Analysis
 - ☐ 2. Technical Preparation
 - ☒ 3. At Scene-Investigation
 - ☐ 4. Reporting

Question ID : 310578696

Q.65 NTSC stands for

- Ans ☒ 1. National Television Standards Committee
- ☐ 2. Natural television service circuit
- ☐ 3. Nation telemarketing standard commission
- ☐ 4. National Television Standards circuit

Question ID : 310578711

Q.66 For the following four molecules: acetone, benzene, dimethyl ether, ethane (each of which contains only one type of proton) the correct order of chemical shift (in δ units) is which of the following?

- Ans ☐ 1. Benzene < acetone < dimethyl ether < ethane
- ☒ 2. Benzene > dimethyl ether > acetone > ethane
- ☐ 3. Benzene < ethane < acetone < dimethyl ether
- ☐ 4. Benzene > ethane > acetone > dimethyl ether

Question ID : 310578678

Q.67 The maximum displacement or distance moved by a point on a vibrating body / wave measured from its equilibrium portion. It is equal to one half the length of vibration called?

- Ans ☒ 1. Amplitude
- ☐ 2. Resonance
- ☐ 3. Frequency
- ☐ 4. Ideolectal

Question ID : 310578697

Q.68 Statement A: It is impossible to match bullets from polygonal rifle barrels. Statement B: With fully automatic weapons and self - loading pistols, rifles and shotguns, the empty cartridge case is manually ejected from the weapon after firing.

- Ans ☒ 1. Both are false.
- ☐ 2. Statement A is true and statement B is false.
- ☐ 3. Statement B is true and statement A is false.
- ☐ 4. Both are true.

Question ID : 310578664

Q.69 Who patented the needle gun and in which year?

- Ans ☐ 1. Joshua, 1840
- ☐ 2. Frosythe, 1807
- ☒ 3. Dreyse, 1828
- ☐ 4. Alexander, 1740

Question ID : 310578668

Q.70 Incendiary bullet contains:

- Ans ☒ 1. Sulphur
- ☒ 2. All of these
- ☒ 3. Wax
- ☒ 4. Phosphorus

Question ID : 310578672

Q.71 Variation of _____ in tool angle may cause a significant influence on the matching of the questioned and standard tool mark of the same tool.

- Ans ☒ 1. above 20°
- ☒ 2. 20°
- ☒ 3. 10°
- ☒ 4. 5°

Question ID : 310578693

Q.72 In _____ the color of every pixel is different when compressed.

- Ans ☒ 1. BMP
- ☒ 2. GIF
- ☒ 3. JPEG
- ☒ 4. JPG

Question ID : 310578708

Q.73 Which of the following is also known as ADAM'S APPLE?

- Ans ☒ 1. Arytenoid cartilage
- ☒ 2. Thyroid cartilage
- ☒ 3. Epiglottis
- ☒ 4. Corniculate cartilage

Question ID : 310578703

**Q.74 Assertion (A): The range of fire can be determined by the spread of pellets.
Reason (R): Because shot gun cartridges are loaded with multiple pellets.**

- Ans ☒ 1. Both A and R are true
- ☒ 2. Both A and R are false
- ☒ 3. A is false but R is true
- ☒ 4. A is true but R is false

Question ID : 310578659

Q.75 Which of the following section of the Indian evidence Act 1872 describes electronic evidence?

- Ans** ☒ 1. Section 65B
☒ 2. Section 65C
☒ 3. Section 65A
☒ 4. Section 65D

Question ID : 310578713

Q.76 The flameless ignition temperature of Pyrodex is?

- Ans** ☒ 1. 300° C
☒ 2. 200° C
☒ 3. 500° C
☒ 4. 400° C

Question ID : 310578667

Q.77 Pistols have a firing range around-

- Ans** ☒ 1. 45-50 yards
☒ 2. 90-100 yards
☒ 3. 15-25 yards
☒ 4. 30-50 yards

Question ID : 310578662

Q.78 The Raman Spectrum is said to consist of strokes lines when

- Ans** ☒ 1. $\Delta v < 0$
☒ 2. $\Delta v > 0$
☒ 3. $\Delta v = 0$
☒ 4. Does not depend on Δv

Question ID : 310578676

Q.79 Carboxylic acids have ore chemical shift than alcohols due to

- Ans** ☒ 1. Decreased H-bonding
☒ 2. Decreased electronegativity
☒ 3. Increased delocalization
☒ 4. Increased de-shielding

Question ID : 310578682

Q.80 Ascending order of a data hierarchy

- Ans** ☒ 1. Byte - Bit - File - Fields - Data base - Record
☒ 2. Bit- Byte- Field-Record- File- Data base
☒ 3. Bit- Byte- Field- File - Record - Data base
☒ 4. Byte - Bit - Fields-Record- File- Data base

Question ID : 310578717

Q.81 Fry's reagent comprises of

- a. Cupric chloride
- b. Hydrochloric acid
- c. Nitric acid
- d. Silver nitrate

Ans ☒ 1. b, c and d

☒ 2. a and b

☒ 3. a and c

☒ 4. a and d

Question ID : **310578690**

Q.82 Elaborate GEQD.

Ans ☒ 1. Government Examiner of Questioned Documents

☒ 2. Government Evaluator of Questioned Documents

☒ 3. Genuine Evaluation of Questioned Documents

☒ 4. Genuine Examination of Questioned Documents

Question ID : **310578655**

Q.83 The annealing temperature for glass is

Ans ☒ 1. 100- 150 °C

☒ 2. 900- 1000 °C

☒ 3. 700- 950 °C

☒ 4. 500- 650 °C

Question ID : **310578685**

Q.84 .315" CAL is equivalent to

Ans ☒ 1. 6 mm

☒ 2. 5 mm

☒ 3. 9 mm

☒ 4. 8 mm

Question ID : **310578670**

Q.85 Polarising microscope can be used to study the

Ans ☒ 1. Birefringence

☒ 2. Refractive indexes

☒ 3. Retardation order

☒ 4. All of them

Question ID : **310578689**

Q.86 What is the name of the device that allows four surveillance camera images to be viewed on a monitor at the same time?

- Ans
- ☐ 1. A modulator
 - ☐ 2. A video splitter
 - ☒ 3. A quad switcher
 - ☐ 4. A photoelectric sensor

Question ID : 310578710

Q.87 The term 'Expert evidence' is defined in section

- Ans
- ☒ 1. 45, Indian Evidence Act
 - ☐ 2. 131, Indian Evidence Act
 - ☐ 3. 45, Criminal Procedure code
 - ☐ 4. 131, Criminal Procedure code

Question ID : 310578718

Q.88 The elemental composition of paper can be determined using which techniques?

- Ans
- ☒ 1. SEM-EDS
 - ☐ 2. NMR
 - ☐ 3. UV spectroscopy
 - ☐ 4. IR spectroscopy

Question ID : 310578653

Q.89 The material used to construct the diffracting crystal is

- Ans
- ☐ 1. Tungsten
 - ☐ 2. Molybdenum
 - ☒ 3. Sodium Chloride
 - ☐ 4. Cobalt

Question ID : 310578680

Q.90 Deflection in CRTs used in TV receivers is done:

- Ans
- ☐ 1. Electrostatically for both vertical and horizontal
 - ☐ 2. Electrostatically for vertical and magnetically for horizontal
 - ☒ 3. Magnetically for both vertical and horizontal
 - ☐ 4. Magnetically for vertical and Electrostatically for horizontal

Question ID : 310578709

Q.91 Time signal can be converted into frequency signal by using

- Ans
- ☒ 1. Fourier Transformation
 - ☐ 2. Laplace Transformation
 - ☐ 3. Differential equations
 - ☐ 4. Differentiation

Question ID : 310578720

Q.92 Which of the following acid is widely used as chemical erasure?

- Ans ☒ 1. Carbolic acid
☒ 2. Sulphuric acid
☒ 3. Oxalic acid
☒ 4. Hydrochloric acid

Question ID : 310578657

Q.93 What is viewed as problem of probabilistic inference?

- Ans ☒ 1. Speaking
☒ 2. Speech recognition
☒ 3. Utterance
☒ 4. Hearing

Question ID : 310578701

Q.94 Making of a false document comes under which section of IPC?

- Ans ☒ 1. 466
☒ 2. 467
☒ 3. 463
☒ 4. 464

Question ID : 310578654

Q.95 The source of sound energy for speech production is

- Ans ☒ 1. Larynx
☒ 2. Vocal cord
☒ 3. Nasal cavity
☒ 4. Pharynx

Question ID : 310578686

Q.96 Which of the following is an Auger transition starting from a hole in 1s levels which would be filled up from the 2p level?

- Ans ☒ 1. KLL transition
☒ 2. LLM transition
☒ 3. KLM transition
☒ 4. LMN transition

Question ID : 310578681

Q.97 Which of the following signal is used in speech recognition?

- Ans ☒ 1. Acoustic signal
☒ 2. Electromagnetic signal
☒ 3. Electric signal
☒ 4. Frequency signal

Question ID : 310578698

Q.98 Pitch of human male speech sound ranges between

- Ans ☒ 1. 100- 120 Hz
- ☐ 2. 200- 230 Hz
- ☐ 3. 120-190 Hz
- ☐ 4. 60- 150 Hz

Question ID : 310578684

Q.99 Kromekote paper method is used in the following:

- Ans ☐ 1. Detecting explosive residue
- ☐ 2. Deciphering erased writing
- ☐ 3. Detecting GSR
- ☒ 4. Deciphering sequence of intersecting strokes

Question ID : 310578675

Q.100 The most commonly used laser for Raman spectroscopy is

- Ans ☐ 1. Ruby Laser
- ☒ 2. He-Ne laser
- ☐ 3. He-Hg
- ☐ 4. Semi-conductor laser

Question ID : 310578677

Q.101 Fractures due to heat are

- Ans ☐ 1. Concentric
- ☒ 2. Wavy
- ☐ 3. Radial
- ☐ 4. Spiral

Question ID : 310578683

Q.102 Which of the following section of the Indian evidence Act 1872 describes tape recorded conversation/ dialogue?

- Ans ☐ 1. Section 10
- ☐ 2. Section 7
- ☐ 3. Section 9
- ☒ 4. Section 8

Question ID : 310578705

Q.103 "There is plenty of room at the bottom", this was stated by

- Ans ☒ 1. Professor Norio Taniguchi
- ☐ 2. Richard Feynman
- ☐ 3. Sumio Iizima
- ☐ 4. Eric Drexler

Question ID : 310578719

Q.104 The physical examination of paint included

- Ans ☒ 1. None of them
- ☒ 2. Color
- ☒ 3. Elemental structure
- ☒ 4. Composition

Question ID : 310578688

Q.105 NCIC stands for:

- Ans ☒ 1. National Crime Information Center
- ☒ 2. National Center for Information Control
- ☒ 3. National Criminal Information Control
- ☒ 4. None of these

Question ID : 310578716

Q.106 Type written documents comprises of which type of ink?

- Ans ☒ 1. Oil-based ink
- ☒ 2. Water based ink
- ☒ 3. Aqueous ink
- ☒ 4. Dye based ink

Question ID : 310578656

Q.107 A computer database containing images of bullets and cartridge cases recovered from scenes or test fired from seized firearms is known by the acronym:

- Ans ☒ 1. NIBIN
- ☒ 2. IAFIS
- ☒ 3. GRC
- ☒ 4. SWGGUN

Question ID : 310578669

Q.108 Which of the following is not a term that is used to indicate the shape of a bullet?

- Ans ☒ 1. Round nose
- ☒ 2. Wadcutter
- ☒ 3. Cannelure
- ☒ 4. Spitzer

Question ID : 310578692

Q.109 Which of the following parts of the vocal tract is important in voice identification?

- Ans ☒ 1. Articulator
- ☒ 2. Larynx
- ☒ 3. Pharynx
- ☒ 4. D) Respiratory system

Question ID : 310578700

Q.110 During Combustion of Gun Powder, the rate of reaction is _____ proportional to pressure.

- Ans**
- ☐ 1. Quadratic
 - ☐ 2. Linear
 - ☐ 3. None of these
 - ☒ 4. Exponential

Question ID : 310578661

Q.111 Where is larynx located?

- Ans**
- ☐ 1. Posterior to nasal and oral cavity
 - ☐ 2. Posterior to esophagus
 - ☐ 3. Superior to pharynx
 - ☒ 4. Midline of neck

Question ID : 310578702

Q.112 Snap haunt is a following weapon

- Ans**
- ☐ 1. Flint lock muzzle loader
 - ☒ 2. Percussion Lock
 - ☐ 3. Wheel lock
 - ☐ 4. Match loch

Question ID : 310578674

Q.113 Which characteristic is this? "We can distinguish between sound having same pitch and loudness."

- Ans**
- ☐ 1. Pitch
 - ☐ 2. Tone
 - ☒ 3. Timber
 - ☐ 4. Note

Question ID : 310578704

Q.114 The process of documenting the seizure of CCTV Footage evidence and, in particular, when that evidence changes hands, is known as:

- Ans**
- ☐ 1. None of these
 - ☐ 2. Field notes
 - ☒ 3. Chain of custody
 - ☐ 4. Interim report

Question ID : 310578712

Q.115 Minimum color depth of video files are _____.

- Ans ☒ 1. 16 bit
- ☒ 2. 256 colors
- ☒ 3. 16 bit (true)
- ☒ 4. 16 color

Question ID : 310578707

Q.116 The diameter of percussion cap for small caliber rifles is..

- Ans ☒ 1. 1mm
- ☒ 2. 4.3 mm
- ☒ 3. 10mm
- ☒ 4. 2mm

Question ID : 310578658

Q.117 Simpson's Paradox occurs when

- Ans ☒ 1. No baseline risk is given, so it is not known whether or not a high relative risk has practical importance
- ☒ 2. The results of a test are statistically significant but are really due to chance.
- ☒ 3. The direction of the relationship between two variables changes when the categories of a confounding variable are taken into account
- ☒ 4. A confounding variable rather than the explanatory variable is responsible for a change in the response variable

Question ID : 310578695

Q.118 Copper is a major component in which type of ink-

- Ans ☒ 1. Dyestuff ink
- ☒ 2. Iron gallotinate ink
- ☒ 3. Carbon ink
- ☒ 4. Log wood ink

Question ID : 310578652

Q.119 What should a CCTV operator do first if they observe a crime in progress?

- Ans ☒ 1. Switch to real time recording, note the time and inform the police of the incident
- ☒ 2. Put camera in time lapse mode and request assistance from a colleague
- ☒ 3. Contact the local police to report the incident and await further instructions
- ☒ 4. Open an incident log and note all relevant details before starting recording

Question ID : 310578715

Q.120 Raman spectroscopy is generally carried out in which region

Ans  1. Visible

 2. IR

 3. Radio-wave

 4. Ultra-violet

Question ID : **310578679**