

# 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 Biological Sciences FACT Plus

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

## Section : Aptitude in Forensic Sciences

### Q.1 Thin layer chromatography is a type of

- Ans
- ☐ 1. Absorption Chromatography
  - ☐ 2. Ion exchange
  - ☒ 3. Adsorption Chromatography
  - ☐ 4. Partition chromatography

Question ID : 310578754

### Q.2 Statistic is

- Ans
- ☐ 1. Unknown
  - ☐ 2. Population characteristic
  - ☒ 3. Sample characteristic
  - ☐ 4. Normally distributed

Question ID : 310578764

### Q.3 Proportion turns percentage when multiplied by

- Ans
- ☐ 1. 1/10
  - ☐ 2. 10
  - ☐ 3. 1/100
  - ☒ 4. 100

Question ID : 310578762

### Q.4 Which of the following techniques is best known for studying Gunshot residue

- Ans
- ☐ 1. ATR-FTIR
  - ☒ 2. SEM-EDX
  - ☐ 3. GC-MS
  - ☐ 4. NMR

Question ID : 310578759

**Q.5 Ridge characteristics in fingerprint are called as**

- Ans ☒ 1. Ridge Tracing
- ☒ 2. Galton's Details
- ☒ 3. Ridge counting
- ☒ 4. Forensic Details

Question ID : 310578752

**Q.6 According to the Beer-lambert Law, on which of the following does absorbance not depend**

- Ans ☒ 1. Colour of the solution
- ☒ 2. Extinction coefficient of the sample
- ☒ 3. Distance that the light has travelled through the sample
- ☒ 4. Solution concentration

Question ID : 310578755

**Q.7 The Information Technology Act (also known as ITA) was enacted in**

- Ans ☒ 1. 2000
- ☒ 2. 2002
- ☒ 3. 2003
- ☒ 4. 2001

Question ID : 310578767

**Q.8 CDTI stands for**

- Ans ☒ 1. Centre Document Training Institute
- ☒ 2. Centre Detective Training Institute
- ☒ 3. Central Detective Training Institute
- ☒ 4. Central Document Training Institute

Question ID : 310578735

**Q.9 Who is known as father of Questioned Document Examination**

- Ans ☒ 1. Alec s. Osborn
- ☒ 2. Arthur S. Osborn
- ☒ 3. Albert S. Osborn
- ☒ 4. Allen S. Osborn

Question ID : 310578733

**Q.10 Section 45 in the Indian Evidence Act 1872 defines**

- Ans ☒ 1. Opinions of Police Personal
- ☒ 2. Opinions of eye witness
- ☒ 3. Opinions of expert
- ☒ 4. Opinions of Judge

Question ID : 310578769

**Q.11 The study of Hair is known as**

- Ans ☐ 1. Histology  
☐ 2. Pathology  
☒ 3. Trichology  
☐ 4. Phytology

Question ID : 310578739

**Q.12 Who was the first Indian women Golfer to qualify for Tokyo Olympic 2020**

- Ans ☐ 1. P.V. Sindhu  
☒ 2. Aditi Ashok  
☐ 3. Sonam Malik  
☐ 4. Pooja Rani

Question ID : 310578722

**Q.13 Which of the following deals with study of insects**

- Ans ☐ 1. Cytogenetic  
☐ 2. Anthropology  
☒ 3. Entomology  
☐ 4. Ornithology

Question ID : 310578748

**Q.14 BIOS in computer science means**

- Ans ☐ 1. Binary Input Output System  
☐ 2. Broad Input Output System  
☐ 3. Board Input Output System  
☒ 4. Basic Input Output System

Question ID : 310578757

**Q.15 On which of the following does the critical value for a Chi-square statistic rely**

- Ans ☐ 1. The number of variables  
☐ 2. The row totals  
☒ 3. The degrees of freedom  
☐ 4. The sum of the frequencies

Question ID : 310578761

**Q.16 Ramesh while going to his drives 4 km in South, then moves to left again drives 3 km.  
how far he is from his starting point**

- Ans ☐ 1. 4  
☐ 2. 3  
☒ 3. 5  
☐ 4. 6

Question ID : 310578727

**Q.17 Choose the word which is different from the rest**

- Ans ☒ 1. Palace  
☒ 2. House  
☒ 3. School  
☒ 4. Cottage

Question ID : 310578726

**Q.18 The person Stas in Stas-Otto methods is**

- Ans ☒ 1. Benzamine Servais Stas  
☒ 2. Jean Servais Stas  
☒ 3. Mathew Servais Stas  
☒ 4. Mike Servais Stas

Question ID : 310578732

**Q.19 ILAC operates in accordance with**

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

Question ID : 310578745

**Q.20 Medullary index in animal hair is**

- Ans ☒ 1. None of these  
☒ 2. Exactly 0.3  
☒ 3. More than 0.3  
☒ 4. Less than 0.3

Question ID : 310578758

**Q.21 The "Spiral" search pattern at scene of crime is used**

- Ans ☒ 1. By spinning around a bunch of times and using an " Oblong" technique  
☒ 2. By starting at the most inward point and slowly walking in increasing circles.  
☒ 3. By starting at the most inward point and searching back and forth until the outer edges are reached  
☒ 4. By starting at the most outward point and circling in

Question ID : 310578749

**Q.22 "A" meets "B" on high roads, shows a gun and demands "B"s bag. "B" in consequence, surrenders his bag. Here "A" has committed**

- Ans ☒ 1. Robbery  
☒ 2. Dacoity  
☒ 3. Extortion  
☒ 4. Theft

Question ID : 310578768

**Q.23 SARS-CoV-2 stands for**

- Ans
- ☐ 1. Severe amount respiratory syndrome coronavirus 2
  - ☐ 2. Severe ailment respiratory syndrome coronavirus 2
  - ☐ 3. Severe aquatic respiratory syndrome coronavirus 2
  - ☒ 4. Severe acute respiratory syndrome coronavirus 2

Question ID : 310578721

**Q.24 Find the missing term: 6, 23, 40, ??, 74**

- Ans
- ☐ 1. 17
  - ☐ 2. 47
  - ☐ 3. 67
  - ☒ 4. 57

Question ID : 310578728

**Q.25 The square of the standard deviation is called**

- Ans
- ☐ 1. 2nd quartile
  - ☐ 2. Harmonic mean
  - ☐ 3. Mode
  - ☒ 4. Variance

Question ID : 310578766

**Q.26 The most repeated value in a data set is called**

- Ans
- ☒ 1. Mode
  - ☐ 2. Median
  - ☐ 3. Mean
  - ☐ 4. Range

Question ID : 310578763

**Q.27 We were not alone in the room. He sat \_\_\_\_\_ me. There were others there \_\_\_\_\_ us.**

- Ans
- ☐ 1. Be, besides
  - ☐ 2. Next, between
  - ☐ 3. Besides, beside
  - ☒ 4. With, besides

Question ID : 310578724

**Q.28 Which of the followings is not associated with the formal recognition of competence of a conformity assessment body by NABL**

- Ans**
- ☐ 1. International recognition
  - ☐ 2. Time and money efficient
  - ☐ 3. Robust Quality Management System
  - ☒ 4. Timely promotion of the employees

Question ID : 310578746

**Q.29 The headquarter of International Organization for Standardization is situated in**

- Ans**
- ☐ 1. Washington
  - ☐ 2. Sydney
  - ☐ 3. England
  - ☒ 4. Geneva

Question ID : 310578743

**Q.30 Identification system based on Anthropometry is known as**

- Ans**
- ☐ 1. Edgeoscopy
  - ☐ 2. Diatomology
  - ☒ 3. Bertillonage
  - ☐ 4. Criminalistics

Question ID : 310578740

**Q.31 Pick the odd one out**

- Ans**
- ☐ 1. L
  - ☐ 2. K
  - ☒ 3. I
  - ☐ 4. J

Question ID : 310578730

**Q.32 If 20% of an electricity bill is deducted, then Rs. 100 is still to be paid. How much was the original bill**

- Ans**
- ☐ 1. 150
  - ☐ 2. 25
  - ☒ 3. 125
  - ☐ 4. 75

Question ID : 310578729

**Q.33 4R rule of glass fracture relates to**

- Ans**
- ☒ 1. Rib mark
  - ☒ 2. Hackle Mark
  - ☒ 3. Concentric fracture
  - ☒ 4. Radial fracture

Question ID : 310578738

**Q.34 What is the full form of PDF file**

- Ans**
- ☒ 1. Public Document Format
  - ☒ 2. Portable Document Format
  - ☒ 3. Published Document Format
  - ☒ 4. Printed document Format

Question ID : 310578756

**Q.35 Which of the followings doesn't include fire triangle**

- Ans**
- ☒ 1. Smoke
  - ☒ 2. Heat
  - ☒ 3. Fuel
  - ☒ 4. Oxygen

Question ID : 310578751

**Q.36 Which of the following CFSLs was established in year 1967**

- Ans**
- ☒ 1. Guwahati
  - ☒ 2. Pune
  - ☒ 3. Hyderabad
  - ☒ 4. Bhopal

Question ID : 310578731

**Q.37 What is the position of earth in our solar system**

- Ans**
- ☒ 1. Fourth
  - ☒ 2. First
  - ☒ 3. Third
  - ☒ 4. Second

Question ID : 310578737

**Q.38 NCRB stands for**

- Ans**
- ☒ 1. National Criminal Records Bureau
  - ☒ 2. News Crime Records Bureau
  - ☒ 3. National Crime Records Bureau
  - ☒ 4. New Criminal Records Bureau

Question ID : 310578747

**Q.39 What is the " Fear of Darkness" called**

- Ans ☒ 1. Arachnop  
☒ 2. Ophidiophobia  
☒ 3. Nyctophobia  
☒ 4. Ablutophobia

Question ID : 310578744

**Q.40 ABFO stands for**

- Ans ☒ 1. American Bureau of Forensic Odontologists  
☒ 2. American Bureau of Forensic Orthopedics  
☒ 3. American Bureau of Forensic Odontology  
☒ 4. American Board of Forensic Odontology

Question ID : 310578736

**Q.41 AFIS stands for**

- Ans ☒ 1. Actual Fingerprint Identification System  
☒ 2. Automated Fingerprint Identification System  
☒ 3. Automatic Fingerprint Identification System  
☒ 4. Algorithm Fingerprint Identification System

Question ID : 310578753

**Q.42 Select correct word**

- Ans ☒ 1. Dessiccator  
☒ 2. Dessicator  
☒ 3. Desicator  
☒ 4. Desiccator

Question ID : 310578725

**Q.43 Forensic photography of bite marks should be done using**

- Ans ☒ 1. FSL scale  
☒ 2. ABFO scale  
☒ 3. FBI scale  
☒ 4. CBI scale

Question ID : 310578760

**Q.44 Who are the beneficiaries of OROP scheme**

- Ans ☒ 1. Sportspersons  
☒ 2. Armed forces Veterans  
☒ 3. Bureaucrats  
☒ 4. Teachers

Question ID : 310578723

**Q.45 The number of times each value appears is called the value's**

- Ans ☒ 1. Range
- ☒ 2. Frequency
- ☒ 3. Standard Deviation
- ☒ 4. Mode

Question ID : 310578765

**Q.46 When in UN day celebrated**

- Ans ☒ 1. June 21
- ☒ 2. October 24
- ☒ 3. June 24
- ☒ 4. October 21

Question ID : 310578741

**Q.47 Which scope of accreditation of NABL is not applicable in the Forensic Science Laboratories**

- Ans ☒ 1. Medicine
- ☒ 2. Chemistry
- ☒ 3. Biology
- ☒ 4. Toxicology

Question ID : 310578742

**Q.48 Forensic expert during crime scene visit should not be**

- Ans ☒ 1. Confidential
- ☒ 2. Skilled
- ☒ 3. Babbling
- ☒ 4. Ethical

Question ID : 310578770

**Q.49 CFSL Delhi comes under which of the followings**

- Ans ☒ 1. CBI
- ☒ 2. DST
- ☒ 3. DFSS
- ☒ 4. DRDO

Question ID : 310578734

**Q.50 When a dead body is found at the scene, the most immediate concern is**

- Ans ☒ 1. Preserving and securing the crime scene
- ☒ 2. Interviewing family members
- ☒ 3. Collection of evidences
- ☒ 4. Identifying the victim

Question ID : 310578750

## Section : Forensic Biological Sciences

**Q.51 Which is not a DNA extraction method**

- Ans ☒ 1. Solid phase  
☒ 2. Organic method  
☒ 3. ABA Card method  
☒ 4. Chelax based

Question ID : 310578828

**Q.52 Name the scientist(s) who derived reconstruction formulae for stature from dry bones**

- Ans ☒ 1. Rollet (1888)  
☒ 2. Trotter and Gleser (1952)  
☒ 3. Karl Pearson (1899)  
☒ 4. Telkka (1950)

Question ID : 310578783

**Q.53 Female pelvis is**

- Ans ☒ 1. Thick  
☒ 2. Wider and thin  
☒ 3. V Shaped  
☒ 4. Heavier

Question ID : 310578836

**Q.54 Which is not found in Diatoms**

- Ans ☒ 1. Colpus  
☒ 2. Chlorophyll  
☒ 3. Xanthophylls  
☒ 4. Fucoxanthin

Question ID : 310578820

**Q.55 The word Anthropolite is related to**

- Ans ☒ 1. Putrefied human body  
☒ 2. Anatomy of human body  
☒ 3. Petrified human body  
☒ 4. Anthroposcopy of human body

Question ID : 310578809

**Q.56 Odontoblasts produce**

- Ans ☒ 1. Enamel  
☒ 2. Dentine  
☒ 3. Cement  
☒ 4. Peridental membrane

Question ID : 310578779

**Q.57 What is the shape of nucleus in monocytes?**

- Ans ☒ 1. Kidney shaped  
☐ 2. Round shape  
☐ 3. Apple shaped  
☐ 4. Triangular shape

Question ID : 310578811

**Q.58 Multilocus probes are**

- Ans ☐ 1. Short DNA fragments which binds to target DNA at a single point  
☐ 2. Long DNA fragments which binds to target DNA at a single point  
☐ 3. Long DNA fragments which binds to target DNA at several points  
☒ 4. Short DNA fragments which binds to target DNA at several points

Question ID : 310578788

**Q.59 Which statement describes the Hardy-Weinberg law the best:**

- Ans ☐ 1. In large populations, dominant alleles become more prevalent  
☐ 2. It is impossible to predict expected allele frequencies mathematically  
☒ 3. Mechanism of inheritance in a large population does not change allele frequency  
☐ 4. Allele frequency changes over a period of time in a large population

Question ID : 310578808

**Q.60 In Hardy Weinberg Equilibrium P represents**

- Ans ☒ 1. Frequency of dominant allele in a population  
☐ 2. Frequency of Null allele in a population  
☐ 3. Frequency of recessive allele in a population  
☐ 4. Frequency of heterozygous genotype in a population

Question ID : 310578777

**Q.61 Which of the following subunits of RNA polymerase is solely required for initiation of transcription?**

- Ans ☒ 1.  $\sigma$  (sigma)  
☐ 2.  $\alpha$  (alpha)  
☐ 3.  $\beta$  (beta)  
☐ 4.  $\omega$  (omega)

Question ID : 310578823

**Q.62 Which is related to skull**

- Ans ☐ 1. Arytenoids  
☒ 2. Pterygoid  
☐ 3. Scaphoid  
☐ 4. Coracoids

Question ID : 310578795

**Q.63 Which of them is a part of mt-DNA?**

- Ans
- ☐ 1. T-loop
  - ☐ 2. S-loop
  - ☐ 3. Y-loop
  - ☒ 4. D-loop

Question ID : 310578807

**Q.64 Which is not useful in identification of individual from skeletalized remains**

- Ans
- ☐ 1. Dentition
  - ☒ 2. Tattoos
  - ☐ 3. Bone abnormalities
  - ☐ 4. Surgical implants

Question ID : 310578785

**Q.65 Which is not a component of xylem:**

- Ans
- ☐ 1. Companion cells
  - ☒ 2. Parenchyma
  - ☐ 3. Tracheids
  - ☐ 4. Vessels

Question ID : 310578787

**Q.66 D13S137 and TPOX are**

- Ans
- ☒ 1. STR markers
  - ☐ 2. Type of virus
  - ☐ 3. Regions of mitochondria
  - ☐ 4. Restriction enzyme

Question ID : 310578774

**Q.67 Who discovered radiographic atlas of skeletal development method of hand and wrist**

- Ans
- ☒ 1. Greulich and Pyle
  - ☐ 2. Krogmann and Iscan
  - ☐ 3. Tanner and Arheson
  - ☐ 4. Thorsan and Hagg

Question ID : 310578778

**Q.68 In human beings, growth stops completely at around**

- Ans
- ☐ 1. 33 years
  - ☐ 2. 16 years
  - ☒ 3. 23 years
  - ☐ 4. 10 years

Question ID : 310578800

**Q.69 Hesitation wound are**

- Ans
- ☐ 1. Mostly seen on back
  - ☐ 2. Deep wound
  - ☒ 3. Superficial and parallel
  - ☐ 4. Abrasion

Question ID : 310578830

**Q.70 One gene one-enzyme theory proposed by**

- Ans
- ☐ 1. Watson and Crick
  - ☐ 2. Carry B Mullis
  - ☒ 3. Beadle and Tatum
  - ☐ 4. Gregor John Mendel

Question ID : 310578822

**Q.71 Hardest tissue in the human body is**

- Ans
- ☐ 1. Plaque
  - ☒ 2. Enamel
  - ☐ 3. Dentine
  - ☐ 4. Cementum

Question ID : 310578784

**Q.72 Which is a fruit fiber**

- Ans
- ☐ 1. Sisal
  - ☐ 2. Mesta
  - ☒ 3. Coir
  - ☐ 4. Rosella

Question ID : 310578796

**Q.73 The DNA fingerprint pattern of a child is**

- Ans
- ☐ 1. 100% similar to the mother's DNA profile
  - ☒ 2. 50% similar to father's DNA profile and rest similar to mother's DNA profile
  - ☐ 3. 100% similar to the father's DNA profile
  - ☐ 4. Exactly similar to that of both of the parents

Question ID : 310578798

**Q.74 Determination of age for the widest range is possible from**

- Ans
- ☒ 1. Skeleton
  - ☐ 2. Secondary sex characters
  - ☐ 3. Morphological characters
  - ☐ 4. Tissue examination

Question ID : 310578804

**Q.75 Which of the following codons is the mRNA start codon that initiates translation?**

Ans ☒ 1. AUG

☒ 2. UAG

☒ 3. UAA

☒ 4. UGA

Question ID : 310578824

**Q.76 Which is related to single gene mutation on chromosome 12**

Ans ☒ 1. Blindness

☒ 2. Cataract

☒ 3. Phenylketonuria

☒ 4. Leprosy

Question ID : 310578832

**Q.77 Skin color in human being is an example of**

Ans ☒ 1. Monogenic inheritance

☒ 2. Complementary genes

☒ 3. Mendelian inheritance

☒ 4. Polygenic inheritance

Question ID : 310578838

**Q.78 Which is not the product of Cannabis**

Ans ☒ 1. Ganja

☒ 2. Hasish

☒ 3. Charas

☒ 4. Cocain

Question ID : 310578825

**Q.79 Demirjian method of estimation of age is based on**

Ans ☒ 1. Fusion of epiphysis with shaft

☒ 2. Cranial sutures

☒ 3. Developmental stages of teeth

☒ 4. All of the these

Question ID : 310578782

**Q.80 Number of bone in each limb of a man**

Ans ☒ 1. 20

☒ 2. 22

☒ 3. 16

☒ 4. 30

Question ID : 310578781

**Q.81 The variation in the restriction DNA fragment lengths between individuals of a species is called:**

- Ans
- ☒ 1. RAPD
  - ☒ 2. SSR
  - ☒ 3. AFLP
  - ☒ 4. RFLP

Question ID : 310578803

**Q.82 A temporary loss of consciousness is called**

- Ans
- ☒ 1. Asphyxia
  - ☒ 2. Comma
  - ☒ 3. Syncope
  - ☒ 4. Suffocation

Question ID : 310578772

**Q.83 Polydactyly in man is due to**

- Ans
- ☒ 1. Autosomal dominant allele
  - ☒ 2. Autosomal recessive allele
  - ☒ 3. Sex linked recessive allele
  - ☒ 4. Sex linked dominant allele

Question ID : 310578789

**Q.84 Seed plants are of two groups**

- Ans
- ☒ 1. Fern and Mosses
  - ☒ 2. Liverworts and Horse tails
  - ☒ 3. Algae and Fungi
  - ☒ 4. Angiosperms and Gymnosperms

Question ID : 310578776

**Q.85 How many teeth does a human adult normally have?**

- Ans
- ☒ 1. 28
  - ☒ 2. 32
  - ☒ 3. 20
  - ☒ 4. 24

Question ID : 310578839

**Q.86 Voluntary muscles are**

- Ans
- ☒ 1. Hamstrings
  - ☒ 2. Diaphragm
  - ☒ 3. Locomotory muscles
  - ☒ 4. Heart Muscles

Question ID : 310578812

**Q.87 Component not required for PCR**

- Ans
- ☒ 1. Taq Polymerase
  - ☒ 2. DNA template
  - ☒ 3. Alcohol
  - ☒ 4. PCR primer

Question ID : 310578829

**Q.88 Skeletal maturity in children and young adult is best measured by:**

- Ans
- ☒ 1. Radiological assessment of leg and pelvis region bone
  - ☒ 2. Radiological assessment of hand and wrist bone development
  - ☒ 3. Radiological assessment of Lumbar vertebrae
  - ☒ 4. Radiological assessment of skull

Question ID : 310578793

**Q.89 Joint between the Carpal and Metacarpal of thumb is**

- Ans
- ☒ 1. Hinge joints
  - ☒ 2. Pivot joints
  - ☒ 3. Saddle joints
  - ☒ 4. Gliding joints

Question ID : 310578821

**Q.90 A false positive result is best described as one that is given**

- Ans
- ☒ 1. When substance being tested for is absent
  - ☒ 2. When the substance being tested for is present in large amounts
  - ☒ 3. When substance being tested for is present in minute quantities
  - ☒ 4. By a substance other than that being tested for

Question ID : 310578816

**Q.91 Hansen's disease caused by**

- Ans
- ☒ 1. Virus
  - ☒ 2. Bacteria
  - ☒ 3. Protozoa
  - ☒ 4. Fungi

Question ID : 310578833

**Q.92 Number of bones in human axial skeleton system are**

- Ans
- ☒ 1. 80
  - ☒ 2. 100
  - ☒ 3. 120
  - ☒ 4. 95

Question ID : 310578814

**Q.93 Which is not a side of a tooth**

- Ans ☒ 1. Distal
- ☒ 2. Ventral
- ☒ 3. Mesial
- ☒ 4. Buccal

Question ID : 310578799

**Q.94 Amelogenin gene on X chromosomes is**

- Ans ☒ 1. 6 base pair longer as compare to that of Y chromosomes
- ☒ 2. 8 base pair longer as compare to that of Y chromosomes
- ☒ 3. 6 base pair shorter as compare to that of Y chromosomes
- ☒ 4. 8 base pair shorter as compare to that of Y chromosomes

Question ID : 310578826

**Q.95 Type of joint which allow no movement under normal conditions**

- Ans ☒ 1. Synarthrosis
- ☒ 2. Diarthrosis
- ☒ 3. Amphiarthrosis
- ☒ 4. Knee joints

Question ID : 310578817

**Q.96 The gravitational settling of blood after death is**

- Ans ☒ 1. Livor mortis
- ☒ 2. Algor mortis
- ☒ 3. Rigor mortis
- ☒ 4. Pallor mortis

Question ID : 310578773

**Q.97 Which of the following is a sequence alignment tool**

- Ans ☒ 1. PROSITE
- ☒ 2. PIR
- ☒ 3. PRINT
- ☒ 4. BLAST

Question ID : 310578801

**Q.98 Brush burn refers to**

- Ans ☒ 1. Electric burn
- ☒ 2. Lightening burn
- ☒ 3. Pressure abrasion
- ☒ 4. Sliding abrasion

Question ID : 310578786

**Q.99 Cartilage is formed by**

- Ans ☒ 1. Chondrocytes  
☒ 2. Osteoblasts  
☒ 3. Chondroblasts  
☒ 4. Osteocytes

Question ID : 310578792

**Q.100 Which of the following white blood cells is capable of phagocytosis?**

- Ans ☒ 1. Neutrophils  
☒ 2. Lymphocytes  
☒ 3. Eosinophils  
☒ 4. Basophils

Question ID : 310578819

**Q.101 What is a plasmid DNA?**

- Ans ☒ 1. Small circular in size  
☒ 2. All of these  
☒ 3. DNA that replicate in bacteria independently  
☒ 4. Found in cytoplasm of bacteria

Question ID : 310578827

**Q.102 Confirmation of menstrual blood stain is done by the following method:**

- Ans ☒ 1. Restriction enzyme  
☒ 2. Protein marker  
☒ 3. Fibrin Degradation Product (FDP)  
☒ 4. Isoenzyme marker

Question ID : 310578805

**Q.103 What does "0" means at the dentist?**

- Ans ☒ 1. Gums are perfect  
☒ 2. None of these  
☒ 3. Gums are bleeding  
☒ 4. Gums are recessed

Question ID : 310578815

**Q.104 Which amino acid is present in hair medullar protein that is usually not a component of proteins?**

- Ans ☒ 1. Glycine  
☒ 2. Proline  
☒ 3. Cystine  
☒ 4. Citrulline

Question ID : 310578806

**Q.105 Specialized sebaceous gland in the eyelids is called**

- Ans
- ☐ 1. Holocrine gland.
  - ☐ 2. Exocrine gland
  - ☒ 3. Meibomian gland
  - ☐ 4. Pileous gland

Question ID : 310578780

**Q.106 The length of Amelogenin Locus in X-Chromosome is:**

- Ans
- ☐ 1. 110bp
  - ☐ 2. 112bp
  - ☐ 3. 114bp
  - ☒ 4. 106bp

Question ID : 310578810

**Q.107 DNA denaturation can be monitored by**

- Ans
- ☒ 1. UV absorbance
  - ☐ 2. PCR
  - ☐ 3. Sequencing
  - ☐ 4. PAGE

Question ID : 310578797

**Q.108 How are the primer dimers are determined in a PCR reaction**

- Ans
- ☐ 1. Adding high amount of sample in the reaction
  - ☐ 2. Adding high amount of primer in the reaction
  - ☒ 3. Compare reaction with negative control
  - ☐ 4. Increasing number of PCR cycle

Question ID : 310578775

**Q.109 Fossa refers to**

- Ans
- ☐ 1. A narrow ridge
  - ☒ 2. Depression on bony surface
  - ☐ 3. Broader ridge
  - ☐ 4. Pointed process

Question ID : 310578771

**Q.110 Colchicine arrests mitosis at**

- Ans
- ☐ 1. Prophase
  - ☐ 2. Telophase
  - ☒ 3. Metaphase
  - ☐ 4. Anaphase

Question ID : 310578802

Q.111 *Mycobacterium leprae* is responsible for

- Ans ☒ 1. Leprosy
- ☒ 2. Influenza
- ☒ 3. Cancer
- ☒ 4. Stroke

Question ID : 310578835

Q.112 How many STR loci were included by FBI in 1997 to constitute CODIS

- Ans ☒ 1. 13
- ☒ 2. 16
- ☒ 3. 23
- ☒ 4. 26

Question ID : 310578791

Q.113 The most famous criminal case of bite mark conviction is of

- Ans ☒ 1. Jeff Thomson
- ☒ 2. Ted Bundy
- ☒ 3. Mohd Ali
- ☒ 4. Wilkinson

Question ID : 310578840

Q.114 Animal fibre Mohair is obtained from

- Ans ☒ 1. Camel
- ☒ 2. Pig
- ☒ 3. Sheep
- ☒ 4. Goat

Question ID : 310578834

Q.115 Rh factor found on the surface of RBCs is a

- Ans ☒ 1. Protein
- ☒ 2. Amino acid
- ☒ 3. RNA
- ☒ 4. Glucose

Question ID : 310578794

Q.116 Which is not a potential source of DNA for forensic analysis

- Ans ☒ 1. Red blood cells
- ☒ 2. Muscle tissue
- ☒ 3. Hair root
- ☒ 4. Epithelial cells in urine

Question ID : 310578790

**Q.117 Primary transmission line of the nervous system are**

- Ans** ☒ 1. Axons  
☐ 2. Neurons  
☐ 3. Dendrite  
☐ 4. Node of Ranvier

Question ID : 310578813

**Q.118 Name the cell that receives antigen presented by MHC molecule.**

- Ans** ☐ 1. B-cells  
☒ 2. T-cells  
☐ 3. Nk cells  
☐ 4. Macrophages

Question ID : 310578818

**Q.119 Genotype and phenotype were created by**

- Ans** ☐ 1. Sutton and Boveri  
☐ 2. Bateson  
☒ 3. Jhonnson  
☐ 4. Puneet

Question ID : 310578831

**Q.120 Desiccation dead body leads to**

- Ans** ☐ 1. Myiasis  
☐ 2. Putrification  
☒ 3. Mummification  
☐ 4. Skeletization

Question ID : 310578837