

Maharashtra Public Service Commission

Question Paper Name :	AssistantDirectorofForensicScienceAdvtno34of2022 29th August 2023 Shift 2
Subject Name :	Assistant Director of Forensic Science Advt no 34 of 2022
Actual Answer Key :	Yes
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Show Progress Bar? :	No

Assistant Director of Forensic Science Advt no 34 of 2022

Section type :	Online
Enable Mark as Answered Mark for Review and Clear Response :	Yes
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**Question Number : 1 Question Id : 630680331377 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

Meconic acid is found in:

Options :

1. opium poppy
2. salvia divinorum
3. tobacco
4. cannabis

**Question Number : 2 Question Id : 630680331378 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

The chiral stationary phase in GC is mainly used for the separation of which kind of components?

Options :

1. Conformational isomers
2. Enantiomers
3. Geometric isomers
4. Structural isomers

**Question Number : 3 Question Id : 630680331379 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

Which of the following is a nitramine explosive?

Options :

1. TNT
2. RDX
3. Picric acid
4. PETN

**Question Number : 4 Question Id : 630680331380 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

Gas-liquid chromatography is based on:

Options :

1. Beer's law
2. Lebec's law
3. Piobert's law
4. Henry's law

**Question Number : 5 Question Id : 630680331381 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

The stationary phase in reverse-phased chromatography is:

Options :

1. non-polar
2. polar
3. both non-polar and polar
4. neither non-polar nor polar

**Question Number : 6 Question Id : 630680331382 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

The act of forcefully pushing a liquid or gas through a system to clean or clear it is called:

Options :

1. elution
2. washing
3. flushing
4. partitioning

**Question Number : 7 Question Id : 630680331383 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

Raman spectroscopy is complementary to:

Options :

1. IR
2. NMR

3. FTIR
4. UV-Vis spectroscopy

**Question Number : 8 Question Id : 630680331384 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

Paper chromatography is a type of:

Options :

1. absorption chromatography
2. adsorption chromatography
3. partition chromatography
4. retention chromatography

**Question Number : 9 Question Id : 630680331385 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

Which indicator is used in the process of titration between a strong acid and a weak base?

Options :

1. Thymol blue
2. Phenolphthalein
3. Methyl orange
4. Thymolphthalein

**Question Number : 10 Question Id : 630680331386 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

Bathochromic shift is:

Options :

1. Shift of λ_{\max} to less energy side (red shift)
2. Shift of λ_{\max} to higher energy side (blue shift)
3. Both red shift and blue shift
4. No shift in λ_{\max}

**Question Number : 11 Question Id : 630680331387 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

With the increase in temperature, the solubility of gases in a liquid:

Options :

1. increases
2. decreases
3. is not affected
4. first increases and then decreases

Question Number : 12 Question Id : 630680331388 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Cardiac glycosides present in the plant foxglove are:

Options :

1. crotin and crotonoside
2. digoxin and digitoxin
3. hyoscine and hyoscyamine
4. strychnine and brucine

Question Number : 13 Question Id : 630680331389 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following are types of gravimetric methods?

Options :

1. Colorimetry and Distillation methods
2. Diffusion methods
3. Electrogravimetry and Thermogravimetric methods
4. Filtration and Isogravimetric methods

Question Number : 14 Question Id : 630680331390 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is a primary explosive?

Options :

1. ANFO
2. Dynamite
3. Mercury fulminate
4. HMX

Question Number : 15 Question Id : 630680331391 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is NOT the classical method for extraction of poisons?

Options :

1. electro dialysis
2. inductively coupled mass spectrometry
3. gutzeit method
4. steam distillation

Question Number : 16 Question Id : 630680331392 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The high-level exposure to _____ causes Minamata disease.

Options :

1. methyl mercury
2. mercuric oxide
3. metallic mercury
4. mercury cyanide

Question Number : 17 Question Id : 630680331393 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The example(s) of organochlorine pesticides is/are:

Options :

1. only DDT
2. only lindane
3. only endosulfan
4. DDT, lindane and endosulfan

Question Number : 18 Question Id : 630680331394 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is independent of temperature?

Options :

1. Molarity
2. Molality
3. Normality
4. Formality

Question Number : 19 Question Id : 630680331395 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

$C_3H_6N_6O_6$ is the chemical formula of which explosive?

Options :

1. Mercury fulminate
2. Tetryl
3. ANFO
4. RDX

Question Number : 20 Question Id : 630680331396 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

During the purification of copper by electrolysis, at the cathode:

Options :

1. pure copper gets deposited
2. $CuSO_4$ gets deposited
3. impure copper gets deposited
4. sulphur gets deposited

**Question Number : 21 Question Id : 630680331397 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

K2 is the street name given to the designer drugs:

Options :

1. synthetic cathinones
2. amphetamines
3. synthetic cannabinoids
4. ketamines

**Question Number : 22 Question Id : 630680331398 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

The detection of elemental sulphur during the extraction of explosives is done with:

Options :

1. organic solvent extract
2. water extract
3. alkali extract
4. pyridine extract

**Question Number : 23 Question Id : 630680331399 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

In forensic analysis, the screening tests are performed for the purpose of:

Options :

1. tentative identification
2. definite identification
3. quantitative analysis
4. semi-quantitative analysis

**Question Number : 24 Question Id : 630680331400 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

The appropriate container for packaging debris items obtained from an arson crime scene is a _____.

Options :

1. tin box with tight lid
2. plastic bag
3. cloth bag
4. sealed paper bag

**Question Number : 25 Question Id : 630680331401 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

The size of a crime scene depends on the type of crime, the location of the evidence and the _____.

Options :

1. type of evidence
2. location of suspect
3. climate of crime scene
4. number of officers in the crime scene

Question Number : 26 Question Id : 630680331402 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

In which of the following methods of barefoot examination is an outline of an identified footprint drawn and positioned over an unknown footprint and compared?

Options :

1. Optical centre method
2. Overlay method
3. Gunn method
4. Composite method

Question Number : 27 Question Id : 630680331403 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is NOT a type of documentation done at crime scene?

Options :

1. Photography and videography
2. Note-making
3. Sketching
4. UV and IR imaging

Question Number : 28 Question Id : 630680331404 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Accreditation means:

Options :

1. conducting assessment
2. meeting pre-determined standards
3. making care cost effective
4. ensuring quality

Question Number : 29 Question Id : 630680331405 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Dr. Edmond Locard, renowned as the 'Sherlock Holmes of France', is widely acknowledged for his formulation of a fundamental premise that serves as a cornerstone in the field of forensic science. What principle did he propose?

Options :

1. Keep it simple.
2. Every contact leaves a trace.
3. If anything can go wrong, it will.
4. For every action there is an equal and opposite reaction.

**Question Number : 30 Question Id : 630680331406 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

What is the direction of the arrow marked in crime scene sketch?

Options :

1. West
2. East
3. South
4. North

**Question Number : 31 Question Id : 630680331407 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

_____ challenges all activities in a new laboratory process in order to provide a high level of assurance that the process will function as intended in the live environment.

Options :

1. Document control or management
2. Proficiency assessment
3. Process control
4. Validation

**Question Number : 32 Question Id : 630680331408 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

A set of planned actions to provide assurance that the processes, other than testing, that influence the quality of the laboratory's results and reports are operating as intended is:

Options :

1. quality control
2. quality assurance
3. quality management system
4. compliance

**Question Number : 33 Question Id : 630680331409 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

NABL stands for:

Options :

1. National Accreditation Board for Laboratories
2. National Accreditation Board for Testing Laboratories
3. National Accreditation Board for Calibration Laboratories

4. National Accreditation Board for Testing and Calibration Laboratories

**Question Number : 34 Question Id : 630680331410 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

Accreditation to a laboratory shall be valid for a period of _____ years.

Options :

1. 5
2. 3
3. 2
4. 6

**Question Number : 35 Question Id : 630680331411 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

A/An _____ holds all paint components together with the surface.

Options :

1. binder
2. solvent
3. drier
4. extender

**Question Number : 36 Question Id : 630680331412 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

The formation of cross-linkage bonds in enamel paints is governed by:

Options :

1. only temperature
2. only oxidation
3. only initiators
4. temperature, oxidation and initiators

**Question Number : 37 Question Id : 630680331413 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

In which of the following evidences are the Becke lines seen?

Options :

1. Wood
2. Paint
3. Glass
4. Metal

**Question Number : 38 Question Id : 630680331414 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

Peening means:

Options :

1. hammering the surface with a round punch
2. filling away the original number with a power grinder
3. stamping the new number
4. changing the number plate

**Question Number : 39 Question Id : 630680331415 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

Compression marks are produced by:

Options :

1. hammer
2. cutter
3. saw
4. drill machine

**Question Number : 40 Question Id : 630680331416 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

Tool marks are NOT easy to identify in the case of:

Options :

1. aluminium
2. rubber
3. copper
4. plaster of paris

**Question Number : 41 Question Id : 630680331417 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

_____ is/are NOT a part of emission system of a flame photometer.

Options :

1. Burner
2. Atomiser
3. Fuel gases and their regulation
4. Chopper

**Question Number : 42 Question Id : 630680331418 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 2 Wrong Marks : 0.5

What factors determine the intensity of secondary electrons?

Options :

1. Only the shape of the irradiated object.

2. Only the chemical composition of the irradiated object.
3. Only the number of electrons ejected.
4. The size and chemical composition of the irradiated object, the number of electrons ejected and the number of electrons reabsorbed by the surrounding.

Question Number : 43 Question Id : 630680331419 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

A cannellure helps in firearm identification as it determines:

Options :

1. the manufacturer of the bullet.
2. the identity of the weapon that fired a particular bullet.
3. the manufacturer of the weapon.
4. the type of gun that fired a particular bullet.

Question Number : 44 Question Id : 630680331420 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which mechanism or system of a hand gun covers manipulating, loading, firing and extracting rounds?

Options :

1. Action
2. Breach
3. Chambering
4. Grouping

Question Number : 45 Question Id : 630680331421 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The mechanism that causes the firing pin to ignite the primer of a cartridge is _____.

Options :

1. action
2. backstrap
3. hammer
4. breech

Question Number : 46 Question Id : 630680331422 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Attention is paid to tread wear indicators because:

Options :

1. they can help pinpoint the part of the tire which made the impression.
2. they have numbers that identify the kind of tire that made the impression.
3. they allow you to identify the colour of the tire. (if it was not black)
4. they can reveal the gender of the person who drove the car.

Question Number : 47 Question Id : 630680331423 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

The spontaneous reactions that occur mostly are _____ in nature.

Options :

1. endothermic
2. exothermic
3. both endothermic and exothermic
4. neither exothermic nor endothermic

Question Number : 48 Question Id : 630680331424 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

Which of the following is NOT considered as an action mechanism in a firearm?

Options :

1. Bolt action
2. Lever action
3. Pump action
4. Rifle bored

Question Number : 49 Question Id : 630680331425 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

_____ is NOT an internal safety in a firearm.

Options :

1. Thumb
2. Hammer block
3. Firing pin disconnect
4. Transfer bar

Question Number : 50 Question Id : 630680331426 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

_____ are NOT striated marks.

Options :

1. Firing pin drag marks
2. Phantom marks
3. Concentric breech marks
4. Chamber marks

Question Number : 51 Question Id : 630680331427 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

An oral evidence under Section 60 of the Indian Evidence Act may be:

Options :

1. direct only
2. hearsay only
3. both direct and hearsay
4. neither direct nor hearsay

Question Number : 52 Question Id : 630680331428 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The electronic evidences produced before the Court are called:

Options :

1. oral evidences
2. electronic evidences
3. documentary evidences
4. technical evidences

Question Number : 53 Question Id : 630680331429 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is the correct order of examination of witnesses?

Options :

1. Examination-in-chief, Cross-examination, Re-examination
2. Cross-examination, Re-examination, Examination-in-chief
3. Examination-in-chief, Re-examination, Cross-examination
4. Not specified

Question Number : 54 Question Id : 630680331430 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

What is the normal time limit for the disposal of the Right to Information Act (RTI) 2005 request from the date of its receipt?

Options :

1. 20 days
2. 25 days
3. 15 days
4. 30 days

Question Number : 55 Question Id : 630680331431 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Under the RTI Act, if a public information officer fails to give information to the informant within the specified period, it is called:

Options :

1. contempt

2. holding Information
3. timeout
4. deemed rejection

Question Number : 56 Question Id : 630680331432 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is/are NOT included in the definition of 'Information' under the RTI Act 2005?

Options :

1. Circulars
2. Log books
3. Database in the electronic record
4. File noting in process

Question Number : 57 Question Id : 630680331433 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

As per the Maharashtra Right to Public Services Act 2015, the authority while deciding an appeal shall have the same powers vested as:

Options :

1. a metropolitan court
2. a magistrate court
3. a civil court
4. a high court

Question Number : 58 Question Id : 630680331434 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

An officer appointed by the concerned public authority under subsection of Section 8 of the Maharashtra Right to Public Services Act 2015 is known as:

Options :

1. Commissioner Authority
2. District Authority
3. First Appellate Authority
4. Public Authority

Question Number : 59 Question Id : 630680331435 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

_____ is a mechanism of evolution in which the allele frequencies of a population change over generations due to chance (sampling error).

Options :

1. Genetic drift
2. Gene flow
3. Hitchhiking effect

4. Genetic make up

Question Number : 60 Question Id : 630680331436 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

“The relative frequencies of various kinds of genes and alleles in a large and randomly mating (panmictic) population tend to remain constant from generation to generation in the absence of mutation, selection and gene flow”. This statement is popularly known as:

Options :

1. Mendel’s law of segregation
2. Hardy-Weinberg equilibrium
3. Darwin’s theory of natural selection
4. Lamarck’s theory

Question Number : 61 Question Id : 630680331437 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

When closely related individuals mate with each other over a smaller population size, it leads to _____.

Options :

1. Inbreeding
2. Outbreeding
3. Founder effect
4. HW equilibrium

Question Number : 62 Question Id : 630680331438 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The length of the complete mitochondrial genome in humans is _____.

Options :

1. 16569
2. 16659
3. 15659
4. 15569

Question Number : 63 Question Id : 630680331439 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

For identification of species, which of the following techniques is used to confirm the species that is validated and widely accepted by the scientific community?

Options :

1. Genotyping
2. Gel-based species identification
3. DNA sequencing
4. RT-PCR based identification

Question Number : 64 Question Id : 630680331440 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

In non-human DNA typing, geographic assignment of samples can be done by the identification of _____ and its comparison with the genetic database of the species.

Options :

1. forensically informative nucleotide sequences
2. RFLP bands
3. junk DNA
4. short tandem repeats

Question Number : 65 Question Id : 630680331441 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

What is full form of BOLD?

Options :

1. Barcode of Life Database
2. Biology of Life Database
3. Barcode of Living Database
4. Biology of Living Database

Question Number : 66 Question Id : 630680331442 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

What is full form of FISH?

Options :

1. Fluorescence in situ hybridisation
2. Fluoropore in situ hybridisation
3. Fluorescent in silico hybridisation
4. Fluoropore in silico hybridisation

Question Number : 67 Question Id : 630680331443 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

How many loci are available in Yfiler Plus PCR amplification kit?

Options :

1. 23
2. 27
3. 24
4. 21

Question Number : 68 Question Id : 630680331444 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Thermus aquaticus is a typical gram-negative bacteria used for the preparation of _____ component used in

PCR.

Options :

1. MgCl₂
2. DNTPs
3. DNA polymerase
4. BSA

Question Number : 69 Question Id : 630680331445 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

What is the role of DNTPs in PCR?

Options :

1. Act as a co-factor to DNA strand.
2. Essential building blocks of nucleic acid molecules.
3. Provide stability to the PCR.
4. Denaturing of DNA.

Question Number : 70 Question Id : 630680331446 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The full form of SNP is:

Options :

1. Stranded Nuclei Polymorphism
2. Single Nucleotide Polytome
3. Single Nucleotide Polymorphism
4. Stranded Nucleotide Polytome

Question Number : 71 Question Id : 630680331447 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is NOT a subsection of anthropology?

Options :

1. Socio-cultural
2. Linguistics
3. Biological
4. Odontology

Question Number : 72 Question Id : 630680331448 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

_____ are collectively referred to as the biological profile.

Options :

1. Age, sex, ancestry and stature
2. Age, sex, religion and occupation

3. Sex, ancestry, religion and stature
4. Age, ancestry, occupation and stature

**Question Number : 73 Question Id : 630680331449 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

_____ have a specialised ruffled acidic border that provides additional surface area for bone resorption.

Options :

1. Osteocytes
2. Osteoclasts
3. Osteoblasts
4. Odontoblasts

**Question Number : 74 Question Id : 630680331450 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

_____ joints permit a great deal of movement.

Options :

1. Fibrous
2. Cartilaginous
3. Synovial
4. Synchrondrosis

**Question Number : 75 Question Id : 630680331451 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

Which of the following is NOT a cranial suture?

Options :

1. Sagittal
2. Coronal
3. Symphysis
4. Squamosal

**Question Number : 76 Question Id : 630680331452 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5**

The xiphoid process is a part of the _____.

Options :

1. hyoid
2. sternum
3. ribs
4. pelvis

Question Number : 77 Question Id : 630680331453 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

_____ is the preferred skeletal element for sexual dimorphism.

Options :

1. Pelvis
2. Ribs
3. Humerus
4. Scapula

Question Number : 78 Question Id : 630680331454 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The pink and yellow forms used during DVI operations were given by:

Options :

1. INTERPOL
2. CBI
3. ICRC
4. FBI

Question Number : 79 Question Id : 630680331455 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is NOT a principle of disaster management?

Options :

1. Rescue
2. Recovery
3. Reconciliation
4. Recognition

Question Number : 80 Question Id : 630680331456 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The Phenice method is a visual method of sexing the _____.

Options :

1. cranium
2. humerus
3. ribs
4. pelvis

Question Number : 81 Question Id : 630680331457 Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Dribbling of saliva is a feature of:

Options :

1. antemortem hanging
2. strangulation
3. post-mortem hanging
4. drowning

Question Number : 82 Question Id : 630680331458 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Bandsola is a form of strangulation by:

Options :

1. ligature
2. hands
3. wooden sticks
4. bend of elbow

Question Number : 83 Question Id : 630680331459 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The condition 'La facies sympathique' is observed in case of:

Options :

1. hanging
2. strangulation
3. throttling
4. railway accidents

Question Number : 84 Question Id : 630680331460 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Diatoms are seen in the body in case of death due to:

Options :

1. strangulation
2. drowning
3. electrocution
4. asphyxia

Question Number : 85 Question Id : 630680331461 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The ligature mark is horizontal in:

Options :

1. judicial hanging
2. suicidal hanging
3. strangulation
4. dry drowning

Question Number : 86 Question Id : 630680331462 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

Diatoms in bone marrow are indicative of:

Options :

1. putrefaction
2. choking
3. drowning
4. strangulation

Question Number : 87 Question Id : 630680331463 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

The National Tiger Conservation Authority was introduced under the Wild Life (Protection) Act, 1972, as per the amendment in the year _____.

Options :

1. 2002
2. 1991
3. 2006
4. 2017

Question Number : 88 Question Id : 630680331464 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

Species that are confined to a particular habitat in a protected area and not found anywhere else except that area are known as _____ species.

Options :

1. endemic
2. elusive
3. exotic
4. nocturnal

Question Number : 89 Question Id : 630680331465 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

Species such as whale, dolphin, etc. are killed using _____ technique(s).

Options :

1. only electrocution
2. only trapping
3. only harpooning
4. both trapping and electrocution

Question Number : 90 Question Id : 630680331466 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The process of sedating an animal for rehabilitation, translocation, radio-collaring, etc. using a dart gun is known as:

Options :

1. poisoning
2. tranquillising
3. electrocution
4. radartapping

Question Number : 91 Question Id : 630680331467 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

'Access and benefit-sharing' was formulated under the _____.

Options :

1. Bern Convention
2. Wild Life (Protection) Act
3. Nagoya Protocol
4. Environmental Protection Act

Question Number : 92 Question Id : 630680331468 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Which of the following is NOT a red blood system?

Options :

1. Kell
2. Duffy
3. ABO
4. HLA

Question Number : 93 Question Id : 630680331469 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

When considering a sample instead of the entire population, by which symbol is the standard deviation denoted?

Options :

1. Small S
2. Ω
3. Capital S
4. σ

Question Number : 94 Question Id : 630680331470 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

_____ is/are the most frequently used natural indicator for determining soil pH.

Options :

1. Methyl red
2. Fluorescein
3. Hydrangeas
4. Anthraquinones

Question Number : 95 Question Id : 630680331471 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The optimal indicator for the titration of a strong acid and a mild base should have a pH range of:

Options :

1. 5-8
2. 4-6
3. 8-10
4. 7-8

Question Number : 96 Question Id : 630680331472 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

Saponification is done by _____.

Options :

1. alkali hydrolysis
2. acids
3. salts
4. base hydrolysis

Question Number : 97 Question Id : 630680331473 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

What happens to a crude oil fraction when its temperature falls below its boiling point?

Options :

1. It freezes.
2. It boils.
3. It condensates.
4. It melts.

Question Number : 98 Question Id : 630680331474 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0.5

The end point for an EDTA titration is usually found by using a/an _____ indicator.

Options :

1. metallochromic
2. redox
3. acid-base
4. precipitates

Question Number : 99 Question Id : 630680331475 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

The components with greater affinity towards the stationary phase _____.

Options :

1. travel slow
2. travel fast
3. forms
4. gets dissolved

Question Number : 100 Question Id : 630680331476 Is Question Mandatory : No Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2 Wrong Marks : 0.5

What is the concentration of 36 g of water that fills 1 cubic metre?

Options :

1. 1 mole/m³
2. 2 mole/m³
3. 11 mole/m³
4. 22 mole/m³