

## DU MSc Forensic Science

Topic:- FS MSC S2

1) The branch of forensic science which uses insects as evidence is:-

[Question ID = 1688]

1. Forensic Ballistics [Option ID = 6746]
2. Forensic Chemistry [Option ID = 6747]
3. DNA typing [Option ID = 6748]
4. Forensic Entomology [Option ID = 6749]

Correct Answer :-

- Forensic Entomology [Option ID = 6749]

2) Forensic Odontology is a branch of forensic science which deals with

[Question ID = 1689]

1. Insects [Option ID = 6750]
2. Bite marks and Teeth [Option ID = 6751]
3. Bone study [Option ID = 6752]
4. Fingerprints [Option ID = 6753]

Correct Answer :-

- Bite marks and Teeth [Option ID = 6751]

3) "Every contact leaves a trace" a basic principle of forensic science, was given by

[Question ID = 1690]

1. Joseph Bell [Option ID = 6754]
2. Raymond Locard [Option ID = 6755]
3. Edmond Locard [Option ID = 6756]
4. Mathieu orfila [Option ID = 6757]

Correct Answer :-

- Edmond Locard [Option ID = 6756]

4) Trisomy 18 is a chromosomal abnormality causing

[Question ID = 1691]

1. Down syndrome [Option ID = 6758]
2. Patau syndrome [Option ID = 6759]
3. Edwards syndrome [Option ID = 6760]
4. Jacob syndrome [Option ID = 6761]

Correct Answer :-

- Edwards syndrome [Option ID = 6760]

5) Milk teeth in humans have the formula

[Question ID = 1692]

1. 2.1.0.2 [Option ID = 6762]
2. 2.0.1.2 [Option ID = 6763]
3. 2.1.2.0 [Option ID = 6764]
4. 2.0.2.1 [Option ID = 6765]

Correct Answer :-

- 2.1.0.2 [Option ID = 6762]

6) FTIR stands for

[Question ID = 1693]

1. Fourier Transform IR spectroscopy [Option ID = 6766]
2. Fourier Transmittance IR spectroscopy [Option ID = 6767]
3. Former Transform IR spectroscopy [Option ID = 6768]
4. Fourier Transmission IR spectroscopy [Option ID = 6769]

Correct Answer :-

- Fourier Transform IR spectroscopy [Option ID = 6766]

7) The scientist who gave chromatography concept was

[Question ID = 1694]

1. Berzelius [Option ID = 6770]
2. Lavoisier [Option ID = 6771]
3. Tswett [Option ID = 6772]
4. Avogadro [Option ID = 6773]

Correct Answer :-

- Tswett [Option ID = 6772]

8) Beer-Lambert's law gives a linear correlation with positive gradient between

[Question ID = 1695]

1. Absorbance and concentration [Option ID = 6774]
2. Absorbance and wavelength [Option ID = 6775]
3. Molar extinction coefficient and absorbance [Option ID = 6776]
4. Molar extinction coefficient and concentration [Option ID = 6777]

Correct Answer :-

- Absorbance and concentration [Option ID = 6774]

9) Nanogram measurement factor is

[Question ID = 1696]

1.  $10^{-3}$  [Option ID = 6778]
2.  $10^{-9}$  [Option ID = 6779]
3.  $10^{-12}$  [Option ID = 6780]
4.  $10^{-10}$  [Option ID = 6781]

Correct Answer :-

- $10^{-9}$  [Option ID = 6779]

10) The term "In born errors of metabolism" was coined by

[Question ID = 1697]

1. Charles Darwin [Option ID = 6782]
2. Francis Galton [Option ID = 6783]
3. Alfred Russell Wallace [Option ID = 6784]
4. A.E. Garrod [Option ID = 6785]

Correct Answer :-

- A.E. Garrod [Option ID = 6785]

11) What is the likelihood that a parent with type 'AB' blood would have a child with type 'O' blood?

[Question ID = 1698]

1. 50% [Option ID = 6786]
2. 25% [Option ID = 6787]
3. Cannot be determined without knowing the blood type of the other parent [Option ID = 6788]
4. 0% [Option ID = 6789]

Correct Answer :-

- 0% [Option ID = 6789]

12) The full name of N.M.R. is

[Question ID = 1699]

1. Nuclear Magnetic Resolution [Option ID = 6790]
2. Nuclear Magnetic Remittance [Option ID = 6791]
3. Nuclear Magnetic Resonance [Option ID = 6792]
4. Nuclear Magnetic Resistance [Option ID = 6793]

Correct Answer :-

- Nuclear Magnetic Resonance [Option ID = 6792]

13) The study of hair is known as

[Question ID = 1700]

1. Toxicology [Option ID = 6794]
2. Trichology [Option ID = 6795]
3. Traumatology [Option ID = 6796]
4. Thanatology [Option ID = 6797]

Correct Answer :-

- Trichology [Option ID = 6795]

14) Electrophoresis is mainly used for

[Question ID = 1701]

1. Differentiating the biological sample [Option ID = 6798]
2. Performing the human specific presumptive tests [Option ID = 6799]
3. DNA isolation from biological material [Option ID = 6800]
4. Separation of the molecules [Option ID = 6801]

Correct Answer :-

- Separation of the molecules [Option ID = 6801]

15) Illegal way of trafficking animals is known as

**[Question ID = 1702]**

1. Kidnapping [Option ID = 6802]
2. Poaching [Option ID = 6803]
3. Harboring [Option ID = 6804]
4. Smuggling [Option ID = 6805]

**Correct Answer :-**

- Poaching [Option ID = 6803]

**16) For examination of diatoms, sample should be collected from**

**[Question ID = 1703]**

1. Bone marrow [Option ID = 6806]
2. Blood [Option ID = 6807]
3. Tissue [Option ID = 6808]
4. Epithelial cells [Option ID = 6809]

**Correct Answer :-**

- Bone marrow [Option ID = 6806]

**17) The presumptive test for semen is**

**[Question ID = 1704]**

1. Acid Phosphatase test [Option ID = 6810]
2. Sodium alpha naphthyl test [Option ID = 6811]
3. Napthanal diazo test [Option ID = 6812]
4. Barbiturate test [Option ID = 6813]

**Correct Answer :-**

- Acid Phosphatase test [Option ID = 6810]

**18) Restriction enzymes are used in one of these techniques**

**[Question ID = 1705]**

1. Sequencing [Option ID = 6814]
2. Genotyping [Option ID = 6815]
3. RFLP [Option ID = 6816]
4. Polymerization [Option ID = 6817]

**Correct Answer :-**

- RFLP [Option ID = 6816]

**19) The Bureau of Police Research and Development is situated in**

**[Question ID = 1706]**

1. New Delhi [Option ID = 6818]
2. Lucknow [Option ID = 6819]
3. Chandigarh [Option ID = 6820]
4. Mumbai [Option ID = 6821]

**Correct Answer :-**

- New Delhi [Option ID = 6818]

**20) The control soil sample should be collected within the distance of \_\_\_\_\_ of the questioned soil region**

**[Question ID = 1707]**

1. 1 Inch [Option ID = 6822]
2. 3 - 4 Inches [Option ID = 6823]
3. 8 Inches [Option ID = 6824]
4. 1 feet [Option ID = 6825]

**Correct Answer :-**

- 3 - 4 Inches [Option ID = 6823]

**21) Which of the following would be considered individual specific evidence?**

**[Question ID = 1708]**

1. Paint [Option ID = 6826]
2. Soil [Option ID = 6827]
3. Blood [Option ID = 6828]
4. DNA [Option ID = 6829]

**Correct Answer :-**

- DNA [Option ID = 6829]

**22) The sex of an individual can be determined by the following, except**

**[Question ID = 1709]**

1. X-Y chromosome [Option ID = 6830]
2. Barr-bodies [Option ID = 6831]
3. Protein pattern [Option ID = 6832]
4. Testosterone/Estradiol ratio [Option ID = 6833]

Correct Answer :-

- Protein pattern [Option ID = 6832]

23) Two arms composed mainly of DNA and held together by centromere is a

[Question ID = 1710]

1. Chromosome [Option ID = 6834]
2. Protein [Option ID = 6835]
3. Cell [Option ID = 6836]
4. Gene [Option ID = 6837]

Correct Answer :-

- Chromosome [Option ID = 6834]

24) Structure of DNA, carrier of the genetic blueprint of all biological organisms, was reported by

[Question ID = 1711]

1. Alec Jeffreys [Option ID = 6838]
2. H.J. Muller [Option ID = 6839]
3. Crick and Watson [Option ID = 6840]
4. E.M. Southern [Option ID = 6841]

Correct Answer :-

- Crick and Watson [Option ID = 6840]

25) Ethanol is absorbed into blood from

[Question ID = 1712]

1. Stomach and small intestine [Option ID = 6842]
2. Liver and large intestine [Option ID = 6843]
3. Stomach and large intestine [Option ID = 6844]
4. Kidney and liver [Option ID = 6845]

Correct Answer :-

- Stomach and small intestine [Option ID = 6842]

26) Blue color of PDS kerosene is due to the presence of which dye?

[Question ID = 1713]

1. Anthracene [Option ID = 6846]
2. Anthraquinone [Option ID = 6847]
3. Dialkyl aminoanthraquinone [Option ID = 6848]
4. Phenyl azo-naphthol [Option ID = 6849]

Correct Answer :-

- Dialkyl aminoanthraquinone [Option ID = 6848]

27) The trigger pull of service rifle is

[Question ID = 1714]

1. 6-7 lbs [Option ID = 6850]
2. 9-12 lbs [Option ID = 6851]
3. 12-15 lbs [Option ID = 6852]
4. 15-18 lbs [Option ID = 6853]

Correct Answer :-

- 6-7 lbs [Option ID = 6850]

28) Bullet that leaves a visible smoke mark on the flight is called

[Question ID = 1715]

1. Fragile bullet [Option ID = 6854]
2. Jacketed bullet [Option ID = 6855]
3. Tracer bullet [Option ID = 6856]
4. Hollow point bullet [Option ID = 6857]

Correct Answer :-

- Tracer bullet [Option ID = 6856]

29) Fibres obtained from animals or plants may also be called a

[Question ID = 1716]

1. Synthetic fibre [Option ID = 6858]
2. Manmade fibre [Option ID = 6859]
3. Natural fibre [Option ID = 6860]
4. Regenerated fibre [Option ID = 6861]

Correct Answer :-

- Natural fibre [Option ID = 6860]

30) The presence of buccal epithelial cells confirms the following

**[Question ID = 1717]**

1. Semen [Option ID = 6862]
2. Urine [Option ID = 6863]
3. Saliva [Option ID = 6864]
4. Blood [Option ID = 6865]

**Correct Answer :-**

- Saliva [Option ID = 6864]

**31) Which of the following fibre is of mineral origin?**

**[Question ID = 1718]**

1. Mohair [Option ID = 6866]
2. Nylon [Option ID = 6867]
3. Asbestos [Option ID = 6868]
4. Rayon [Option ID = 6869]

**Correct Answer :-**

- Asbestos [Option ID = 6868]

**32) Which of the following methods is non-destructive technique for ink identification**

**[Question ID = 1719]**

1. Solubility test [Option ID = 6870]
2. Thin layer chromatography [Option ID = 6871]
3. UV-Vis spectrophotometer [Option ID = 6872]
4. Videospectral analysis [Option ID = 6873]

**Correct Answer :-**

- Videospectral analysis [Option ID = 6873]

**33) Wisdom tooth is also known as**

**[Question ID = 1720]**

1. Canine [Option ID = 6874]
2. Lateral incisor [Option ID = 6875]
3. Third molar [Option ID = 6876]
4. Second premolar [Option ID = 6877]

**Correct Answer :-**

- Third molar [Option ID = 6876]

**34) Olecranon fossa is present in which of the following bones?**

**[Question ID = 1721]**

1. Radius [Option ID = 6878]
2. Humerus [Option ID = 6879]
3. Tibia [Option ID = 6880]
4. Femur [Option ID = 6881]

**Correct Answer :-**

- Humerus [Option ID = 6879]

**35) Foramen magnum is present in**

**[Question ID = 1722]**

1. Pelvis [Option ID = 6882]
2. Scapula [Option ID = 6883]
3. Sternum [Option ID = 6884]
4. Skull [Option ID = 6885]

**Correct Answer :-**

- Skull [Option ID = 6885]

**36) Linea aspera is present on which of the following bone?**

**[Question ID = 1723]**

1. Humerus [Option ID = 6886]
2. Femur [Option ID = 6887]
3. Clavicle [Option ID = 6888]
4. Ulna [Option ID = 6889]

**Correct Answer :-**

- Femur [Option ID = 6887]

**37) Ossification centres of bones may be used for determination of:-**

**[Question ID = 1724]**

1. Sex  
[Option ID = 6890]

2. Age  
[Option ID = 6891]
3. Stature  
[Option ID = 6892]
4. Time since death  
[Option ID = 6893]

Correct Answer :-

- Age  
[Option ID = 6891]

38) Development of a classification system based on single fingerprint is credited to:-

[Question ID = 1725]

1. Henry  
[Option ID = 6894]
2. Galton  
[Option ID = 6895]
3. Battley  
[Option ID = 6896]
4. Faulds  
[Option ID = 6897]

Correct Answer :-

- Battley  
[Option ID = 6896]

39) The book entitled "Classification and uses of fingerprints" is authored by:-

[Question ID = 1726]

1. Francis Galton  
[Option ID = 6898]
2. Henry Faulds  
[Option ID = 6899]
3. E.R. Henry  
[Option ID = 6900]
4. Juan Vucetich  
[Option ID = 6901]

Correct Answer :-

- E.R. Henry  
[Option ID = 6900]

40) Ridge counting is not possible from the

[Question ID = 1727]

1. Plain whorls [Option ID = 6902]
2. Ulnar loop [Option ID = 6903]
3. Radial loop [Option ID = 6904]
4. Plain arch [Option ID = 6905]

Correct Answer :-

- Plain arch [Option ID = 6905]

41) Which one of the following parameters is not measured by the Lie detector?

[Question ID = 1728]

1. Pulse rate [Option ID = 6906]
2. Blood Pressure [Option ID = 6907]
3. Galvanic skin Resistance [Option ID = 6908]
4. Adrenaline levels [Option ID = 6909]

Correct Answer :-

- Adrenaline levels [Option ID = 6909]

42) The term "Expert evidence" is defined in section

[Question ID = 1729]

1. 45, Indian Evidence Act [Option ID = 6910]
2. 131, Indian Evidence Act [Option ID = 6911]

3. 45, Criminal Procedure code [Option ID = 6912]
4. 131, Indian Penal code [Option ID = 6913]

**Correct Answer :-**

- 45, Indian Evidence Act [Option ID = 6910]

**43) Gas chromatography was developed by**

**[Question ID = 1730]**

1. G.D. Kohler and K. Thide [Option ID = 6914]
2. Henry and Pascal [Option ID = 6915]
3. Piobert and Pascal [Option ID = 6916]
4. Leuce and K. Thide [Option ID = 6917]

**Correct Answer :-**

- G.D. Kohler and K. Thide [Option ID = 6914]

**44) Seminal fluid choline originates from the**

**[Question ID = 1731]**

1. Seminal vesicle [Option ID = 6918]
2. Sertoli's cells [Option ID = 6919]
3. Leydig cell [Option ID = 6920]
4. Prostate gland [Option ID = 6921]

**Correct Answer :-**

- Leydig cell [Option ID = 6920]

**45) \_\_\_\_\_ is used to determine the species of origin from blood stain**

**[Question ID = 1732]**

1. Acid phosphate test [Option ID = 6922]
2. Teichmann test [Option ID = 6923]
3. Fluorescence test [Option ID = 6924]
4. Immunoprecipitation test [Option ID = 6925]

**Correct Answer :-**

- Immunoprecipitation test [Option ID = 6925]

**46) Which one of the following is the active component of marking nut?**

**[Question ID = 1733]**

1. Semicarpol [Option ID = 6926]
2. Semicarpine [Option ID = 6927]
3. Semicarbine [Option ID = 6928]
4. Semicarmine [Option ID = 6929]

**Correct Answer :-**

- Semicarpol [Option ID = 6926]

**47) HMX contains**

**[Question ID = 1734]**

1. Cyclotetra Methylene Tetranitramine [Option ID = 6930]
2. Ammonium Nitrate [Option ID = 6931]
3. Nitro-Glycerine [Option ID = 6932]
4. Cyclo-Trimethylene Trinitrate [Option ID = 6933]

**Correct Answer :-**

- Cyclotetra Methylene Tetranitramine [Option ID = 6930]

**48) Teaching of forensic science for the first time in India was started in 1959 at**

**[Question ID = 1735]**

1. Delhi [Option ID = 6934]
2. Hyderabad [Option ID = 6935]
3. Sagar [Option ID = 6936]
4. Patiala [Option ID = 6937]

**Correct Answer :-**

- Sagar [Option ID = 6936]

**49) Firing pin marks of a gun are**

**[Question ID = 1736]**

1. Compression marks [Option ID = 6938]
2. Cut marks [Option ID = 6939]
3. Striation marks [Option ID = 6940]
4. Repetitive marks [Option ID = 6941]

**Correct Answer :-**

- Compression marks [Option ID = 6938]

50) Tailing of a wound is seen in

[Question ID = 1737]

1. Chop wound [Option ID = 6942]
2. Contusion [Option ID = 6943]
3. Laceration [Option ID = 6944]
4. Incised wound [Option ID = 6945]

Correct Answer :-

- Incised wound [Option ID = 6945]

51) Which of the following salts is known as "Truth serum"?

[Question ID = 1738]

1. Sodium nitrate [Option ID = 6946]
2. Sodium chloride [Option ID = 6947]
3. Sodium sulphate [Option ID = 6948]
4. Sodium pentothal [Option ID = 6949]

Correct Answer :-

- Sodium pentothal [Option ID = 6949]

52) Which one of the following is not a poisonous plant?

[Question ID = 1739]

1. Datura stramonium [Option ID = 6950]
2. Parthenium hysterophorus [Option ID = 6951]
3. Crab's Eye plant [Option ID = 6952]
4. Dolichos biflorus [Option ID = 6953]

Correct Answer :-

- Dolichos biflorus [Option ID = 6953]

53) Which technique will allow amplification of the DNA in order to provide a large enough specimen?

[Question ID = 1740]

1. Gel electrophoresis [Option ID = 6954]
2. Polymerase chain reaction [Option ID = 6955]
3. Cloning [Option ID = 6956]
4. DNA sequencing [Option ID = 6957]

Correct Answer :-

- Polymerase chain reaction [Option ID = 6955]

54) That there are 23 pairs of chromosomes in man was established by

[Question ID = 1741]

1. Tjio & Levan [Option ID = 6958]
2. Landsteiner & Weiner [Option ID = 6959]
3. Landsteiner & Levine [Option ID = 6960]
4. Weiner & Levine [Option ID = 6961]

Correct Answer :-

- Tjio & Levan [Option ID = 6958]

55) Many people get an upset stomach and diarrhea when they drink milk. A common cause of this problem is

[Question ID = 1742]

1. Calcium intolerance [Option ID = 6962]
2. lactose intolerance [Option ID = 6963]
3. Butter fat intolerance [Option ID = 6964]
4. Casein intolerance [Option ID = 6965]

Correct Answer :-

- lactose intolerance [Option ID = 6963]

56) Which of these numbers is closest to the current estimate of the number of genes in the human genome?

[Question ID = 1743]

1. 25000 [Option ID = 6966]
2. 60000 [Option ID = 6967]
3. 250000 [Option ID = 6968]
4. 2500000 [Option ID = 6969]

Correct Answer :-

- 25000 [Option ID = 6966]

57) A pH of 10 is how many times more basic than a pH of 7?

[Question ID = 1744]

1. 2 [Option ID = 6970]
2. 10 [Option ID = 6971]



3. 100 [Option ID = 6972]
4. 1,000 [Option ID = 6973]

Correct Answer :-

- 1,000 [Option ID = 6973]

**58) The presence of which of the following organelles or structures would most convincingly indicate that a cell is a eukaryote and not a prokaryote?**

[Question ID = 1745]

1. Plasma membrane [Option ID = 6974]
2. Cell wall [Option ID = 6975]
3. Nucleoid [Option ID = 6976]
4. Lysosome [Option ID = 6977]

Correct Answer :-

- Lysosome [Option ID = 6977]

**59) Crossover occurs during**

[Question ID = 1746]

1. Prophase of mitosis [Option ID = 6978]
2. Prophase I of meiosis [Option ID = 6979]
3. Prophase II of meiosis [Option ID = 6980]
4. Prophase I and II of meiosis [Option ID = 6981]

Correct Answer :-

- Prophase I of meiosis [Option ID = 6979]

**60) Which of the following conditions is an X-linked condition?**

[Question ID = 1747]

1. Haemophilia [Option ID = 6982]
2. Huntington's disease [Option ID = 6983]
3. Cystic fibrosis [Option ID = 6984]
4. Sickle cell anaemia [Option ID = 6985]

Correct Answer :-

- Haemophilia [Option ID = 6982]

**61) The situation in which a gene at one locus alters the phenotypic expression of a gene at another locus is known as**

[Question ID = 1748]

1. Dominance [Option ID = 6986]
2. Codominance [Option ID = 6987]
3. Pleiotropy [Option ID = 6988]
4. Epistasis [Option ID = 6989]

Correct Answer :-

- Epistasis [Option ID = 6989]

**62) All the following are carbohydrates except**

[Question ID = 1749]

1. Glycogen [Option ID = 6990]
2. Chitin [Option ID = 6991]
3. Glycerol [Option ID = 6992]
4. Cellulose [Option ID = 6993]

Correct Answer :-

- Glycerol [Option ID = 6992]

**63) A change in pH from 8 to 11 indicates a change in concentration of H<sup>+</sup> ions by a factor of**

[Question ID = 1750]

1. 3 [Option ID = 6994]
2. 30 [Option ID = 6995]
3. 300 [Option ID = 6996]
4. 1,000 [Option ID = 6997]

Correct Answer :-

- 1,000 [Option ID = 6997]

**64) What is the cause of the cramps you feel in your muscles during strenuous exercise?**

[Question ID = 1751]

1. Lactic acid fermentation [Option ID = 6998]
2. Alcohol fermentation [Option ID = 6999]
3. Chemiosmotic coupling [Option ID = 7000]
4. Too much oxygen delivery to the muscles [Option ID = 7001]

Correct Answer :-

- Lactic acid fermentation [Option ID = 6998]

65) During which phase of the cell cycle does crossing over occur?

[Question ID = 1752]

1. Metaphase of mitosis [Option ID = 7002]
2. Metaphase I of meiosis [Option ID = 7003]
3. Prophase I of meiosis [Option ID = 7004]
4. Prophase of mitosis [Option ID = 7005]

Correct Answer :-

- Prophase I of meiosis [Option ID = 7004]

66) A court case is trying to determine the father of a particular baby. The mother has type O blood, and the baby has type B blood. Which of the following blood types would mean that the man was definitely *not* the father of the baby?

[Question ID = 1753]

1. B and A  
[Option ID = 7006]
2. AB and A  
[Option ID = 7007]
3. O and B  
[Option ID = 7008]
4. O and A  
[Option ID = 7009]

Correct Answer :-

- O and A

[Option ID = 7009]

67) A couple has four children, all of whom are boys. They are expecting a fifth child in two months. What is the probability that this child will be male?

[Question ID = 1754]

1.  $1/8$  [Option ID = 7010]
2.  $1/4$  [Option ID = 7011]
3.  $1/3$  [Option ID = 7012]
4.  $1/2$  [Option ID = 7013]

Correct Answer :-

- $1/2$  [Option ID = 7013]

68) All of the following represent X-linked conditions EXCEPT

[Question ID = 1755]

1. Haemophilia [Option ID = 7014]
2. Albinism [Option ID = 7015]
3. Duchene muscular dystrophy [Option ID = 7016]
4. Colour-blindness [Option ID = 7017]

Correct Answer :-

- Albinism [Option ID = 7015]

69) The ability to establish the exact whereabouts of an item of evidence and under whose control it was from its collection to the courtroom and everywhere in between is known as maintaining the

[Question ID = 1756]

1. Chain of command [Option ID = 7018]
2. Continuity of investigation [Option ID = 7019]
3. Chain of custody [Option ID = 7020]
4. Business records circle [Option ID = 7021]

Correct Answer :-

- Chain of custody [Option ID = 7020]

70) In the American legal system, whether or not a particular expert's testimony could be used during trial was, from about 1923 to the mid-1990s, determined by

[Question ID = 1757]

1. The standard laid down by the *Daubert* case  
[Option ID = 7022]
2. A "General Acceptance in the Community" standard (Frye Rule)  
[Option ID = 7023]
3. The Locard standard

[Option ID = 7024]

4. A "Don't Ask Don't Tell" standard

[Option ID = 7025]

**Correct Answer :-**

- A "General Acceptance in the Community" standard (Frye Rule)

[Option ID = 7023]

**71) The rough sketch that is usually prepared at a crime scene is used to**

**[Question ID = 1758]**

1. Help identify the victim [Option ID = 7026]
2. Reduce the number of photos [Option ID = 7027]
3. Precisely locate evidence [Option ID = 7028]
4. Help visualize the scene [Option ID = 7029]

**Correct Answer :-**

- Help visualize the scene [Option ID = 7029]

**72) Examination of the blood splatter pattern flung from a weapon can help to determine**

**[Question ID = 1759]**

1. The attacker [Option ID = 7030]
2. The shape of the weapon [Option ID = 7031]
3. Where the attack took place [Option ID = 7032]
4. The time of the attack [Option ID = 7033]

**Correct Answer :-**

- Where the attack took place [Option ID = 7032]

**73) Ballistics is**

**[Question ID = 1760]**

1. The path followed by a projectile from a firearm [Option ID = 7034]
2. Firearms identification [Option ID = 7035]
3. NIBIN [Option ID = 7036]
4. Type of bullet [Option ID = 7037]

**Correct Answer :-**

- The path followed by a projectile from a firearm [Option ID = 7034]

**74) The immunological test known as the "precipitin test" is used in examining unknown bloodstains to determine**

**[Question ID = 1761]**

1. ABO blood group [Option ID = 7038]
2. Commonality of origin [Option ID = 7039]
3. Species of origin [Option ID = 7040]
4. The PGM isoenzyme type [Option ID = 7041]

**Correct Answer :-**

- Species of origin [Option ID = 7040]

**75) Catalytic tests for the presence of blood in stains (such as the benzidine, o-tolidine, or phenolphthalein tests) are**

**[Question ID = 1762]**

1. Presumptive tests [Option ID = 7042]
2. Confirmatory tests [Option ID = 7043]
3. Very insensitive [Option ID = 7044]
4. Highly unpredictable [Option ID = 7045]

**Correct Answer :-**

- Presumptive tests [Option ID = 7042]

**76) Hair forcibly removed from the body**

**[Question ID = 1763]**

1. Is known as telogen hair [Option ID = 7046]
2. Has cellular material adhering to its root, and may be analysed for nuclear DNA [Option ID = 7047]
3. Is much more common as evidence than hair that just falls out of the skin [Option ID = 7048]
4. Is analyzed primarily with an instrument known as the FTIR [Option ID = 7049]

**Correct Answer :-**

- Has cellular material adhering to its root, and may be analysed for nuclear DNA [Option ID = 7047]

**77) Phenol-chloroform extraction methods is used for**

**[Question ID = 1764]**

1. Hand imprints extraction [Option ID = 7050]
2. DNA extraction [Option ID = 7051]
3. Hemoglobin extraction [Option ID = 7052]
4. Saliva extraction [Option ID = 7053]

Correct Answer :-

- DNA extraction [Option ID = 7051]

78) The most frequent pattern found in the largest number of fingertips is

[Question ID = 1765]

1. Arch [Option ID = 7054]
2. Loop [Option ID = 7055]
3. Whorl [Option ID = 7056]
4. Accidental [Option ID = 7057]

Correct Answer :-

- Loop [Option ID = 7055]

79) Cheiloscopy is used to identify the person from

[Question ID = 1766]

1. Palato prints [Option ID = 7058]
2. Lip prints [Option ID = 7059]
3. Foot prints [Option ID = 7060]
4. Finger prints [Option ID = 7061]

Correct Answer :-

- Lip prints [Option ID = 7059]

80) 'Filigree burns' are caused by

[Question ID = 1767]

1. Electrocution [Option ID = 7062]
2. lightning injury [Option ID = 7063]
3. Chemical burns [Option ID = 7064]
4. Fire accidents [Option ID = 7065]

Correct Answer :-

- lightning injury [Option ID = 7063]

81) Diatom test is to determine death due to

[Question ID = 1768]

1. Drowning [Option ID = 7066]
2. Strangulation [Option ID = 7067]
3. Hanging [Option ID = 7068]
4. Burns [Option ID = 7069]

Correct Answer :-

- Drowning [Option ID = 7066]

82) Milk is deficient of which mineral?

[Question ID = 1769]

1. Phosphorus [Option ID = 7070]
2. Sodium [Option ID = 7071]
3. Iron [Option ID = 7072]
4. Potassium [Option ID = 7073]

Correct Answer :-

- Iron [Option ID = 7072]

83) Which one is the largest particulate of the cytoplasm?

[Question ID = 1770]

1. Lysosomes [Option ID = 7074]
2. Mitochondria [Option ID = 7075]
3. Golgi apparatus [Option ID = 7076]
4. Endoplasmic reticulum [Option ID = 7077]

Correct Answer :-

- Mitochondria [Option ID = 7075]

84) The general formula of polysaccharides is

[Question ID = 1771]

1.  $(C_6H_{10}O_5)_n$  [Option ID = 7078]
2.  $(C_6H_{12}O_5)_n$  [Option ID = 7079]
3.  $(C_6H_{10}O_6)_n$  [Option ID = 7080]
4.  $(C_6H_{12}O_6)_n$  [Option ID = 7081]

Correct Answer :-

- $(C_6H_{10}O_5)_n$  [Option ID = 7078]

85) Two sugars which differ from one another only in configuration around a single carbon atom are tetra



[Question ID = 1772]

1. Epimers [Option ID = 7082]
2. Anomers [Option ID = 7083]
3. Optical isomers [Option ID = 7084]
4. Stereoisomers [Option ID = 7085]

Correct Answer :-

- Epimers [Option ID = 7082]

86) A sugar alcohol is

[Question ID = 1773]

1. Mannitol [Option ID = 7086]
2. Trehalose [Option ID = 7087]
3. Xylulose [Option ID = 7088]
4. Arabinose [Option ID = 7089]

Correct Answer :-

- Mannitol [Option ID = 7086]

87) The approximate number of branches in amylopectin is

[Question ID = 1774]

1. 10 [Option ID = 7090]
2. 20 [Option ID = 7091]
3. 40 [Option ID = 7092]
4. 80 [Option ID = 7093]

Correct Answer :-

- 80 [Option ID = 7093]

88) Allergic reactions are mediated by

[Question ID = 1775]

1. IgA [Option ID = 7094]
2. IgG [Option ID = 7095]
3. IgD [Option ID = 7096]
4. IgE [Option ID = 7097]

Correct Answer :-

- IgE [Option ID = 7097]

89) Which of the following measures the spread of data?

[Question ID = 1776]

1. Mean [Option ID = 7098]
2. Median and interquartile range [Option ID = 7099]
3. First and third quartiles [Option ID = 7100]
4. Standard deviation and variance [Option ID = 7101]

Correct Answer :-

- Standard deviation and variance [Option ID = 7101]

90) To identify the shape of univariate data, what type of graph would be the most useful?

[Question ID = 1777]

1. Histogram [Option ID = 7102]
2. Scatter plot [Option ID = 7103]
3. Bar chart [Option ID = 7104]
4. Pie chart [Option ID = 7105]

Correct Answer :-

- Histogram [Option ID = 7102]

91) Which of the following elements has the lowest electronegativity?

[Question ID = 1778]

1. F [Option ID = 7106]
2. I [Option ID = 7107]
3. Ba [Option ID = 7108]
4. Al [Option ID = 7109]

Correct Answer :-

- Ba [Option ID = 7108]

92) Which of the following must be true of an object that is slowing down?

[Question ID = 1779]

1. Its velocity must be smaller than its acceleration [Option ID = 7110]
2. It must experience more than one force [Option ID = 7111]
3. Its acceleration and its velocity must be in opposite directions [Option ID = 7112]
4. Its velocity must be negative [Option ID = 7113]

Correct Answer :-

- Its acceleration and its velocity must be in opposite directions [Option ID = 7112]

93) One of the presumptive tests for the blood, Kastle-Meyer is also known as the

[Question ID = 1780]

1. O-Tolidine test [Option ID = 7114]
2. Phenolphthalein test [Option ID = 7115]
3. O-Dianisidine test [Option ID = 7116]
4. Luminol test [Option ID = 7117]

Correct Answer :-

- Phenolphthalein test [Option ID = 7115]

94) Teichmann test is confirmatory test for the presence of

[Question ID = 1781]

1. Blood [Option ID = 7118]
2. Semen [Option ID = 7119]
3. Saliva [Option ID = 7120]
4. Urine [Option ID = 7121]

Correct Answer :-

- Blood [Option ID = 7118]

95) A child witness below the age of \_\_\_\_\_ cannot give evidence in the Indian courts

[Question ID = 1782]

1. 10 years [Option ID = 7122]
2. 15 years [Option ID = 7123]
3. 12 years [Option ID = 7124]
4. There is no such limit [Option ID = 7125]

Correct Answer :-

- There is no such limit [Option ID = 7125]

96) A dying declaration is admissible

[Question ID = 1783]

1. Only in criminal proceedings [Option ID = 7126]
2. Only in civil proceedings [Option ID = 7127]
3. In civil as well as criminal proceedings both [Option ID = 7128]
4. It is not admissible at all [Option ID = 7129]

Correct Answer :-

- In civil as well as criminal proceedings both [Option ID = 7128]

97) Human mtDNA consists of approximately how many base pairs?

[Question ID = 1784]

1. 1650 [Option ID = 7130]
2. 16500 [Option ID = 7131]
3. 165000 [Option ID = 7132]
4. 1650000 [Option ID = 7133]

Correct Answer :-

- 16500 [Option ID = 7131]

98) Most of the Y chromosome STRs used for forensic cases are

[Question ID = 1785]

1. Trimeric repeats [Option ID = 7134]
2. Hexameric repeats [Option ID = 7135]
3. Pentameric repeats [Option ID = 7136]
4. Tetrameric repeats [Option ID = 7137]

Correct Answer :-

- Tetrameric repeats [Option ID = 7137]

99) Which of the following was the first forensic DNA technique developed?

[Question ID = 1786]

1. STR [Option ID = 7138]
2. AFLP [Option ID = 7139]
3. VNTR [Option ID = 7140]
4. SNP [Option ID = 7141]

Correct Answer :-

- VNTR [Option ID = 7140]

100) Dried blood evidence should be packed in:-

**[Question ID = 1787]**

1. Plastic bag

[Option ID = 7142]

2. Glass jar

[Option ID = 7143]

3. Tin can

[Option ID = 7144]

4. Paper bag

[Option ID = 7145]

**Correct Answer :-**

- Paper bag

[Option ID = 7145]