

At 23 years, all the following occur in males except:

- A) Closure of sagittal suture.
- B) Union of epiphyseal line of sternal end of clavicle.
- C) Union of epiphysis of the iliac crest.
- D) Basi-occipital bone unites with basi-sphenoid.

Precipitin test is used to:

- A) Identify a bone fragment of human origin or not.
- B) Identify a blood stain of human origin or not.
- C) Identify hair of human origin or not.
- D) All of the above.

Molecular death occurs rapidly in:

- A) Skeletal muscles.
- B) Nervous tissue.
- C) Smooth muscles.
- D) All of the above.

Atmospheric temperature affects:

- A) Algor mortis.
- B) Hypostasis.
- C) Rigor mortis.
- D) Both (a) and (c).

As regards venous air embolism, choose the right statement:

- A) 1-2 cc of air may be enough to produce death.
- B) It occurs due to obstruction of pulmonary circulation.
- C) It may be a cause of death in cases of criminal abortion.
- D) Both (b) and (c).

At 7th month of intrauterine life, all the following occur except:

- A) Fetus is 35 cm in length.
- B) Ossific center of the lower end femur appears.
- C) Testicles reach the internal inguinal ring.
- D) Weight of the placenta is 400 gm.

Unexpected blow to epigastrium when the stomach is full may lead to sudden death from:

- A) Vagal stimulation.
- B) Sympathetic stimulation.
- C) Peritonitis
- D) Non of the above.

Fingerprints patterns are hardly detected in the following conditions except:

- A) Leprosy.
- B) Drowning.
- C) Strong acid.
- D) Deep burn.

As regards homicidal cut throat, choose the right statement:

- A) Presence of hesitation marks.
- B) Wound is oblique and above thyroid cartilage.
- C) The wound is deep from beginning to the end.
- D) Non of the above.

The picture of brain stem death is all the following except:

- A) No corneal or light reflex.
- B) Flat E.E.G.
- C) No respiratory movement occur when the patient is disconnected from ventilator.
- D) Absence of gag reflex.

In road traffic accident the crush injuries of the chest most commonly affect :

- A) Pedestrians.
- B) Driver.
- C) Front seat passenger.
- D) back seat passenger.

A child of 12 years, the expected number of teeth in his mouth is:

- A) 28 teeth.
- B) 24 teeth.
- C) 32 teeth.
- D) Non of the above.

Bony gap of the skull is completely healed by membrane after:

- A) One month.
- B) Three months.
- C) six months.
- D) One year.

After head injury, the person can tell the name of the assailant during a period of:

- A) Concussion.
- B) Lucid interval.
- C) Compression.
- D) Any if the above.

Hypostasis is fixed after:

- A) About one hour after death.
- B) About two hours after death.
- C) About six hours after death.
- D) One day after death.

In firearm injuries, identification of an empty case is done by:

- A) Breech - block marks.
- B) Primary rifling marks.
- C) Secondary rifling marks.
- D) Both (b) and (c).

Regarding soiling ring, choose the correct statement:

- A) It is found on firearm injuries caused by shots.
- B) It has no relation with the distance of firing.
- C) It is found in both inlet and exit.
- D) Non of the above.

Unburned powder particles causes:

- A) Burning.
- B) Blackening.
- C) Tattooing.
- D) All of the above.

All the following may be the causes of death in cases dry burn except:

- A) Neurogenic shock.
- B) Air embolism.
- C) Acute edema of glottis.
- D) Fat embolism.

Peripheral asphyxia in electrocution is caused by:

- A) Relaxation of respiratory muscles.
- B) Paralysis of respiratory muscles.
- C) Spasm of respiratory muscles.
- D) All of the above.

Spectroscopic test shows two absorption bands:

- A) Oxy- hemoglobin.
- B) Met hemoglobin.
- C) Carboxy-hemoglobin.
- D) Both (a) and (c).

Regarding typical hanging, choose the right statement:

- A) The site of the knot is at the occiput.
- B) The knot is at any site.
- C) The body is suspended with the feet or knees do not touch the floor.
- D) The body is suspended with the feet or knees touching the floor.

The evidence in the diagnosis of drowning in putrefied bodies is:

- A) The presence of froth in respiratory passage.
- B) The presence of unpalatable water in the stomach.
- C) The presence of more fluid in the left side of the heart.
- D) The presence of planktons in the bone marrow.

The type of the hymen which may cause pregnancy like condition is:

- A) Annular hymen.
- B) Imperforated hymen.
- C) Cribriform hymen.
- D) Dentate hymen.

Secondary hemorrhage which may occur few days after abortion is due to:

- A) Hypertension.
- B) Sepsis.
- C) Hypersensitivity to amniotic fluid.
- D) Non of the above.

In disputed paternity, blood group examination helps in which of the following:

- A) Identification of a possible father and mother.
- B) Confirming that a certain person is the father.
- C) Confirming that a certain person is not the father.
- D) None of the above.

Earliest sign of death is:

- A) Loss of skin elasticity.
- B) Cooling of the body.
- C) Post mortem lividity.
- D) Tache noire.

The most hazardous preliminary blood test is:

- A) Guaiacum.
- B) Benzidine.
- C) Kastle -Meyer.
- D) Takayama.

As regards cadaveric spasm:

- A) It is due to ATP depletion.
- B) It helps to indicate time pass since death.
- C) It is not preceded by stage of primary relaxation.
- D) It affects group of involuntary muscles.

Regarding post-concussion syndrome, all are true except:

- A) It remains few days then the patient becomes normal.
- B) It is characterized by headache, memory impairment and vertigo.
- C) It is due to psychological element or brain edema.
- D) It may be fatal in severe cases.

Regarding wads, choose the wrong statement:

- A) Diagnosis firearm injuries is due to rifled weapons.
- B) Differentiates between inlet and exit wounds.
- C) Estimates the distance of firing.
- D) Non of the above.

Toxic shock in cases of burn results from:

- A) Tissue destruction.
- B) Release of histamine like substance.
- C) Capillary dilatation.
- D) All of the above.

Cyanosis is present in all the following conditions except -

- A) Anoxic anoxia
- B) Histotoxic hypoxia
- C) Stagnant hypoxia.
- D) Central hypoxia.

Adipocere is chemically:

- A) Oleic acid.
- B) Stearic acid.
- C) palmitic acid.
- D) Non of the above.

Regarding fissure fracture of skull, choose the wrong statement:

- A) It is due to blunt instrument with high momentum.
- B) It starts at the site of impaction and run in the direction of the force.
- C) Ring fracture is a type of fissure skull fracture.
- D) It heals by calcified callus.

Female sacrum is:

- A) Short and broad.
- B) Sacroiliac joint occupies 1.5 segment.
- C) curved at its lower end.
- D) All of the above.

A child has 24 teeth all of them are permanent, the age of this child is:

- A) 9 years.
- B) 10 years.
- C) 11 years.
- D) 13 years.

All the following are an ethical conduct by the Doctor except one:

- A) Consults the more experienced colleague.
- B) Certified what he has been personally verified
- C) Emergency care is a humanitarian duty.
- D) Self-advertising.

The commonest cause of death in lacerated wound is:

- A) Fat embolism.
- B) Air embolism.
- C) Infection.
- D) Hemorrhage.

Coma of compression is characterized by:

- A) Sudden onset.
- B) Equal pupils.
- C) Projectile vomiting.
- D) Hypotension.

In Dupuytren classification, full skin thickness is classified as:

- A) First degree burn.
- B) Second degree burn.
- C) Third degree burn.
- D) Fourth degree burn.

Secondary injury in car accidents is due to hitting:

- A) The hood.
- B) The windscreen.
- C) The ground.
- D) All of the previous.

All of the following are complication of abortion, except:

- A) Arterial embolism
- B) Hemorrhage.
- C) Amniotic embolism
- D) Neurogenic shock.

Signs of live birth in the lung are the following, except:

- A) The weight is about 1/ 70 of body weight.
- B) The lung is spongy in consistency.
- C) The lung edges are rounded.
- D) Floatation test is positive.

Serrations of torn hymen are characterized all by the following, EXCEPT:

- A) Opaque scar tissue on transillumination.
- B) Never reach vaginal wall.
- C) Asymmetrical.
- D) Irregular.

Head trauma by an axe can lead to these skull fractures except:

- A) Cut fracture.
- B) Ring fracture.
- C) Chipped fracture.
- D) Comminuted fracture.

Regarding prints choose the wrong statement:

- A) Foot prints help in identification of stature.
- B) Finger prints are hardly detected in cases of drowning.
- C) Poroscopy describe the relation between sweat glands and palmar ridges.
- D) Dactylography refers to fingerprints.

The union of the epiphyseal line of metacarpal bones and phalanges occurs at the same age of union of:

- A) Head of the femur with the shaft.
- B) Ischial tuberosity with the body of the ischium.
- C) Lower end of tibia and fibula with the shaft.
- D) Both (a) and (c).

Barr bodies :

- A) Detected in the nucleus of nerve cells.
- B) Depending on presence of Y-chromosomes.
- C) Applicable in cases of putrefied bodies.
- D) None of the above.

Surgical wound in the axilla is characterized by all of the following, except:

- A) Profuse bleeding.
- B) Healing by 1st intension.
- C) Have regular edges.
- D) No tissue bridging.

Abrasions may be found in:

- A) Inlets of bullets.
- B) Contused wounds by stick.
- C) Human bites.
- D) All the above.

Estimation of the period of survival of live-birth infant depends on all of the following except:

- A) Changes in the umbilical vessels.
- B) Closure of foramen ovale.
- C) Hydrostatic test.
- D) Stomach bowel floating test.

At the age of one year, we expect all the following , except:

- A) Eruption of the canine.
- B) The ossification center of the clavicle appears.
- C) Eruption of the first molar.
- D) Eruption of the lateral incisor.

Regarding firearm injuries choose wrong statement:

- A) The full dispersion in choked guns occurred at 4 meters
- B) Bone bevelling seen only in flat bones.
- C) Hot explosive gasses come out from the muzzle and travel for a distance of 15cm.
- D) Tattooing that result from smokeless powder is fainter than that produced by black powder.

The green color of bruises is due to presence of:

- A) Carboxyhemoglobin.
- B) Bilirubin.
- C) Biliverdin.
- D) Methemoglobin.

The manner of death may be the following, EXCEPT:

- A) Accidental.
- B) Pathological.
- C) Homicidal.
- D) Suicidal.

The most characteristic findings in examination of cases of child abuse:

- A) Multiple bone fractures.
- B) Signs of sexual abuse.
- C) Multiple bruises of different ages.
- D) None of the above.

Negroid race is characterized by all of the following but one:

- A) Prognathism.
- B) The hard palate is flat.
- C) Cephalic index equal 94.
- D) Lips are thick and slightly everted.

Which post-mortem change of the following is completely sterile?

- A) Marbling (Arborization).
- B) Adipocere.
- C) Mummification.
- D) Maceration.

Age of 6 years is the age of starting education, it is detected by:

- A) Eruption of the permanent central incisor.
- B) Appearance of the ossification center of the upper end radius.
- C) Union of the epiphyseal lines of the distant ends of metacarpal bones.
- D) Appearance of the ossification center in the lower end of the radius.

post-mortem rigidity, select the correct statement:

- A) It involves the smooth muscles only
- B) It is not sure sign of death
- C) It does not involve the cardiac muscle.
- D) It is due to chemical process

All the following are true about petechial hemorrhages, except one :

- A) might be significant if present in the eyes and face
- B) cannot develop in internal organs
- C) can occur in natural congestive death
- D) can occur after sneezing

Pond fracture is commonly seen in:

- A) Infant and small children.
- B) Adolescents.
- C) Adults.
- D) Old persons.

Neglecting tying the cord of a new born may cause death from:

- A) Sepsis.
- B) Hemorrhage.
- C) Amniotic fluid embolism.
- D) Air embolism.

Putrefaction is accelerated in death by all the following, except:

- A) Septic abortion.
- B) Freezing
- C) Mutilated bodies.
- D) Gas gangrene

Which of the following would be least likely accepted as legal of paternity?

- A) DNA analysis evidence.
- B) ABO blood type evidence.
- C) None of the answers.
- D) All are equally likely to be accepted.

The most common delayed cause of death in burn is:

- A) Acute renal failure.
- B) Pulmonary embolism.
- C) Septicemia.
- D) Gangrene.

Post mortem greenish discoloration of the skin is due to:

- A) Sulph-haemoglobin.
- B) Oxy- haemoglobin.
- C) Reduced haemoglobin.
- D) None of the above.

Fracture of lower ends of radius and ulna is called:

- A) Colles fracture.
- B) Whiplash injury.
- C) Bumper fracture.
- D) Spoke injury.

Internal autopsy findings due to death from asphyxia include all the following, EXCEPT:

- A) Congestion of the mucosa of air passages.
- B) Tradieu spots.
- C) Red fluid blood.
- D) Silvery spots.

Regarding air blast, in an explosion injury, the organs affected are:

- a) Liver, spleen, and kidneys.
- b) Brain, spinal cord, and nerves.
- c) Skin, subcutaneous tissue, and muscles.
- d) Lungs, ears, and intestine.

Second permanent molar tooth erupt at:

- a) 6 – 7 years.
- b) 12 – 14 years.
- c) 17 – 25 years.
- d) None of the above.

In a case of aircraft accident raised COHb may indicate:

- a) Burning as a cause of death.
- b) How long the person survived in the fire.
- c) Engine abnormality.
- d) All of the above.

Avulsion of small intestine, intestinal mesenteric laceration and perforation is seen in:

- a) Crush syndrome.
- b) Caffey syndrome.
- c) Seat belt syndrome.
- d) None of the above.

Sudden infant death syndrome includes:

- a) Age incidence of 2 weeks to 2 years.
- b) A female preponderance.
- c) A higher incidence in summer.
- d) Excessive crying prior to death.

The term homicidal is used to describe:

- a) A particular manner of death.
- b) A particular cause of death.
- c) A particular mechanism of death.
- d) None of the above.

In a case of road traffic accident one of following injuries belongs to run over injuries:

- a) Rolling injuries.
- b) Patterned abrasions.
- c) Grazes.
- d) None of the above.

Choose correct answer regarding human hair:

- a) Thin cortex.
- b) Wide medulla.
- c) Uniform distribution of pigment.
- d) Specific precipitin test.

A short statured woman comes to your clinic, having webbing of the neck, cubitus valgus, chromosome number 45, chromosome pattern OX. It could be a case of:

- a) Turner's syndrome.
- b) Klinefelter's syndrome.
- c) Hermaphroditism.
- d) None of the above.

choose wrong statement regarding temporary teeth:

- a) They are 32 in number.
- b) Ivory white in colour.
- c) Ridge is absent.
- d) All of the above are wrong statements.

Choose correct statement regarding extradural hemorrhage:

- a) Is mostly associated with fracture of skull.
- b) Occurs mostly in temporal zone.
- c) Caused due to rupture of middle meningeal artery.
- d) All of the above.

Battered baby syndrome does not include:

- a) Skin bruises of various ages.
- b) Adult bite marks.
- c) Stab wounds.
- d) Several burn marks.

Choose the correct answer:

- a) Froth in mouth and nostrils is seen in death by drowning.
- b) Severe cyanosis and petechiae are usually noted in strangulation.
- c) Ventricular fibrillation is most likely caused by death in an injury by electric shock.
- d) All of the above.

Choose the wrong answer regarding a case of traumatic asphyxia:

- a) Congestion of face, neck and shoulders.
- b) Petechial hemorrhages in face and conjunctiva.
- c) Fracture of laryngeal cartilage.
- d) Swelling of face and lips.

The following are manifestations of habitual passive sodomist, except:

- a) The anus is funnel or conical in shape.
- b) There may be healed or active anal fissure.
- c) Presence of usual mucosal folds.
- d) Anal sphincter loses its tone.

The following are true regarding precipitate labour as a cause of death in infanticide, except:

- a) Site of fracture never to be in the temporal or occipital bone.
- b) Nature of fracture never to be depressed or comminuted.
- c) Multiparous mother.
- d) Umbilical cord usually cut regularly.

The ossification center of the talus, during intrauterine life, appears at:

- a) 5 months.
- b) 6 months.
- c) 7 months.
- d) 8 months.

Tick mark the wrong statement regarding to TAKAYAMA test:

- a) The test depends on the presence of haemoglobin in the stain.
- b) The stain should be dry.
- c) The stain must be in the form of very fine powder.
- d) Pink needle shaped crystals arranged in clusters or rosette form indicate that the staining may be blood.

The following may characterise ligature mark in a case of typical hanging, except:

- a) Oblique.
- b) Incomplete at site of suspension.
- c) Symmetrical.
- d) Above the larynx.

Bruises appear easily in:

- a) Scrotum.
- b) Around eye.
- c) Obese people.
- d) All of the above.

The greenish discoloration of putrefaction starts to appear usually:

- a) Around the umbilicus.
- b) In the right iliac fossa.
- c) In the chest wall.
- d) In the back.

Which of the following statement is true:

- a) Displacement of warton's jelly of umbilical cord towards the neck detects accidental strangulation.
- b) In hydrostatic test, floatation of the lung pieces after they are subjected to high pressure will confirm that the infant was born alive.
- c) Positive pregnancy test is confirmatory evidence that the woman is pregnant.
- d) Endocervical arbor-vitae are present in multiparous women.

- Vital changes in the umbilical stump must be examined carefully...why?

- a) To determine the cause of death.
- b) To estimate the time passing since death.
- c) To prove that the infant was borne alive or dead.
- d) To estimate the possible age of the infant.

Tick-mark the false statement:

- a) Sudden death is unexpected death of an apparently healthy person or death within 24 hours from the onset of sudden terminal disease.
- b) Respired lungs are mosaic in colour and crepitant.
- c) Calibre (bore) of a rifled weapon is the measurement between two opposite grooves.
- d) In true hermaphrodites both ovaries and tests with external genitalia of both sexes exist in one individual.

Which of the following statement is not true regarding to rape:

- a) Below 18 years, victim's consent is of no value.
- b) A woman cannot commit the offence of rape on a man against his well.
- c) Consent is considered to be true if it is the result of fraud.
- d) It is not necessary that hymen should be ruptured.

Anterior fontanelle is completely closed at:

- a) Full term.
- b) 6 months after birth.
- c) 12 months after birth.
- d) 18 months after birth.

- Death by ventricular fibrillation may be seen in:

- a) Electrocutation.
- b) Hypothermia.
- c) Drowning.
- d) All of the above.

- Choose **WRONG** statement, regarding finger nail abrasions:

- a) They are common finding in sexual assaults.
- b) They can be in the form of linear or fragmentary scratches.
- c) They are always curved in shape.
- d) Direction of curvature tells position of the hand.

- Hearing of foetal heart sounds establishes the fact of a pregnancy. But it may not be heard if:

- a) Examination is made before 18 weeks.
- b) There is excessive quantity of liquor amnii.
- c) The foetus is dead.
- d) All of the above.

Choose **CORRECT** statement regarding delusion:

- a) It is a false perception of sense, without any external stimulus.
- b) It is a false interpretation of an external object.
- c) It is a false but firm belief in something, which is not a fact.
- d) It is a thought or an impulse which an individual feels compelled to carry out, usually repetitively, inspite of a strong urge to resist

Primer is a mixture of:

- a) Mercury fulminate, Potassium chlorate, and antimony sulfide.
- b) Mercury fulminate, charcoal, and Sulfur.
- c) Charcoal, Sulfur, and Potassium nitrate.
- d) Nitrocellulose, Mercury fulminate, and Potassium chlorate.

Temporary canine teeth erupt at:

- a) 6 – 7 months.
- b) 11 months.
- c) 18 months.
- d) None of the above.

X-ray examination of a boy shows- lower end of femur, distal ends of radius and ulna united with respective shafts. His age could be:

- a) 15 years.
- b) 16 years.
- c) 17 years.
- d) None of the above.