

1. Molecular death is

- A) Complete irreversible cessation of brain, heart and lung function
- B) Death of individual tissues and cells after somatic death
- C) Total loss of EEG activity, but heart is functioning
- D) Vital functions are at low pitch that cannot be detected by clinical examination.

Answer: B) Death of individual tissues and cells after somatic death

Explanation

- A) Complete irreversible cessation of brain, heart, lung is Somatic (clinical) death
- C) Loss of EEG with functioning heart is Brain death
- D) Vital functions undetectable clinically is Suspended animation

2. All are successional teeth except

- | | |
|-------------------------|--------------------------|
| A) First upper premolar | B) Second lower premolar |
| C) First lower molar | D) First upper canine |

Answer: C) First lower molar

Explanation

Successional teeth replace deciduous teeth. Premolars, incisors and canines replace deciduous teeth. So, they are successional teeth. Molars erupt without replacing any teeth. So, they are superadded teeth.

3. Hesitation cuts are seen in cases of

- A) Homicide
- B) Suicide
- C) Accident
- D) Fall From height

Answer: B) Suicide

Explanation

Multiple superficial tentative cuts seen near deep cut is known as hesitation cuts. It is seen in suicidal incised wounds on hands or suicidal cut throat injuries.

4. Fracture ala signature is

- | | |
|--------------------|-----------------------|
| A) Gutter fracture | B) Depressed fracture |
| C) Ring fracture | D) Sutural separation |

Answer: B) Depressed fracture

Explanation

- A. Gutter fracture is seen with oblique bullet wounds. Part of bone thickness is removed, forming a gutter.
- B. Fracture ala signature is depressed fracture which has shape of striking surface like hammer head.
- C. Ring fracture is a circular fracture around foramen magnum. It is seen in Fall from height.
- D. Sutural separation is seen in Sutural Fracture- Diastatic Fracture

5. Battle's sign is

- | | |
|--------------------------|-----------------------|
| A) Hemorrhage around eye | B) Mastoid ecchymosis |
| C) Umbilical ecchymosis | D) Vaginal ecchymosis |

Answer: B) Mastoid ecchymosis

Explanation

- A) Raccoon eyes are seen in anterior cranial fossa fracture
- B) Battle's sign is seen in fracture of middle cranial fossa. Blood collects over mastoid process
- C) Cullen's sign is bluish discolouration around the umbilicus which indicates retroperitoneal hemorrhage
- D) Chadwick's sign is bluish or purplish discolouration of vagina and cervix, seen in early pregnancy.

6. Paradoxical undressing is seen in

- | | |
|-----------------|-----------------------|
| A) Hyperthermia | B) Hypothermia |
| C) Transvestism | D) Immersion syndrome |

Answer: B) Hypothermia

Explanation

Paradoxical undressing and Hide and die syndrome are seen in Hypothermia

7. Joule burn is seen in

- | | |
|-------------------|---------------------|
| A) Blast injuries | B) Electrocution |
| C) Firearm wounds | D) Lightning stroke |

Answer: B) Electrocution

Explanation

Joule burns are electrical contact burns caused by resistance of skin to electric current.

8. Grievous injury includes all except

- | | |
|----------------------------|--------------------------|
| A) Emasculation | B) Loss of 15 day's work |
| C) Permanent disfigurement | D) Fracture of bone |

Answer: B) Loss of 15 day's work

Explanation

- A) Emasculation – Clause 1 of Section 116 of BNS
 - C) Permanent disfigurement – Clause 6 of Section 116 of BNS
 - D) Fracture – Clause 7 of Section 116 of BNS
- Clause 8 of Section 116 of BNS - Any hurt which endangers life, or which causes the sufferer to be in severe bodily pain, or unable to follow his **ordinary pursuits** for a period of 15 days.

9. In typical hanging the knot is placed at

Answer: A) Occiput

Explanation

In Typical hanging knot is placed at back of neck (occiput).

In atypical hanging knot is placed anywhere other than back of neck (occiput).

10. Shape of Nulliparous cervix is

- A) Conical
 - B) Circular
 - C) Longitudinal
 - D) Cylindrical

Answer: A) Conical

Explanation

Nulliparous cervix - Overall shape is Conical. External os is Small & circular

Multiparous cervix - Overall shape is Cylindrical. External os is Transverse

11. Most common cause of first trimester abortion is

- A) Chromosomal defect
 - B) Endocrine disturbance
 - C) Anatomical abnormality of uterus
 - D) Infections

Answer: A) Chromosomal defect

Explanation

- A) Chromosomal defect – more than 50% of first-trimester spontaneous abortions
 - B) Endocrine disturbance – causes recurrent abortions, not the commonest cause.
 - C) Anatomical abnormality of uterus - Recurrent pregnancy loss in Second-trimester.
 - D) Infections – affect Fetus later in pregnancy and cause congenital anomalies.

12. Atavism is resemblance of features to

- A) Mother B) Father C) Neighbour D) Grandfather

Answer: D) Grandfather

Explanation

Atavism is resemblance of features of Grandfather, not immediate parents.

13. Neologism is characteristically seen in:

- A) Depression B) Mania C) Schizophrenia D) Delirium

Answer: C) Schizophrenia

Explanation

Neologism is thought disorder leading to incoherence of speech with newly formed meaningless words. It is seen in Schizophrenia.

14. Professional death sentence is given by

- A) Central Government B) National Medical Commission
C) Indian Medical Association D) State Government

Answer: B) National Medical Commission

Explanation

Professional death sentence (Penal erasure) is permanent removal of name of medical practitioner from medical register. It is done by National Medical Commission in case of serious professional misconduct.

15. Amyl nitrite is the antidote for:

- A) Aconite poisoning B) Cyanide poisoning
C) CO poisoning D) H₂S poisoning

Answer: B) Cyanide poisoning

Explanation**CLASSICAL CYANIDE ANTIDOTE KIT**

1. Amyl Nitrite	Converts hemoglobin → methemoglobin Methemoglobin binds cyanide → forms cyanomethemoglobin
2. Sodium Nitrite	Converts hemoglobin → methemoglobin
3. Sodium Thiosulfate	Converts cyanide → thiocyanate (non-toxic)

16. Color of urine in phenol poisoning

- A) Red B) Green C) Yellow D) Blue

Answer: B) Green

Explanation

Phenol on oxidation converts to hydroquinone & pyrocatechol. In urine further oxidation leads to green colour known as Carboloruria.

17. Poison detected long after death in hair / bone

- A) Lead B) Mercury C) Arsenic D) Cannabis

Answer: C) Arsenic

Explanation

A) Lead deposits in bone and may adhere externally to hair but Cannot reliably distinguish between Ingested lead and Environmental contamination

B) Mercury is volatile and does not firmly bind to bone matrix. Hair mercury reflects recent exposure

C) ARSENIC has Strong affinity for keratin. Hence arsenic becomes firmly fixed in Hair. Arsenic replaces phosphate in bone and gets incorporated into bone matrix. So, persists for years. It can be detectable even after Skeletonization, Exhumation, and Burns.

D) Cannabis does not bind to keratin or bone, metabolized in liver and didn't deposition in hard tissues

18. Widmark's formula is used for measurement of blood level of:

- A) Benzodiazepines B) Barbiturates C) Alcohol D) Cocaine

Answer: C) Alcohol

Explanation

Widmark's formula Calculates blood alcohol concentration.

19. Following is not present in Datura

- A) Hyoscine B) Hyoscyamine C) Muscarine D) Atropine

Answer: C) Muscarine

Explanation

Datura contains Atropine, Hyoscine & Hyoscyamine.

Muscarine is present in mushrooms.

20. Amotivational syndrome is seen with

- A) Heroin B) Cannabis C) Cocaine D) Clonidine

Answer: B) Cannabis

Explanation

Amotivational syndrome is seen in chronic cannabis users.