

Anesthesia

final Archive

دفعة رّوح



الفريق الأكاديمي
لجنة الطب والجراحة

1) Which of the following is known as laughing gas?

- a. CO₂
- b. N₂O
- c. NO₂
- d. B₂O
- e. He

answer:b

2) according to criteria of admission to intensive care unit one correct:

- a) Patient needs FiO₂ less than 60%
- b) PaO₂ less than 70 mmHg
- c) PaCO₂ more than 55 mmHg
- d) GCS less than 14
- e) pH = 7.40

answer:C

3) What is the most sensitive initial sign of malignant hyperthermia?

- a) Tachycardia
- b) Hypotension
- c) Increased end-tidal CO₂ (hypercapnia)
- d) Muscle rigidity
- e) Fever

answer:C

4) A 37-year-old male patient is lying in bed with eyes closed. When spoken to, he opens his eyes but says things that do not make sense and are unrelated to the questions. He initially shows no spontaneous movement, but when painful stimulation is applied, he localizes the stimulus accurately.

What is his Glasgow Coma Scale (GCS) score?

- a) 12
- b) 9
- c) 11
- d) 10
- e) 8

answer:C

5) Which breathing system is most suitable for spontaneous breathing in infants?

- a) Mapleson A
- b) Mapleson B
- c) Mapleson C
- d) Mapleson D
- e) Mapleson F

answer:e

6) What is the most common complication of inserting a central venous catheter?

- a) Carotid artery puncture
- b) Thrombosis
- c) Cardiac arrhythmias
- d) Air embolism
- e) Infection

answer:c

7) Which of the following is not considered a predictor of difficult intubation during the pre-anaesthetic examination?

- a) Mallampati test
- b) Thyromental distance
- c) Protrusion of mandible
- d) Cormack-Lehane grade
- e) Trachea centralization

answer:d

8) Which one of the following devices provides fixed performance oxygen therapy?

- a) Nasal cannula
- b) Simple mask
- c) Partial rebreather mask
- d) Venturi mask
- e) Oxygen by T-piece

answer:d

9) A 68-year-old man with hypertension and diabetes presents to the ER with abrupt onset of diffuse abdominal pain radiating to his low back. He is hypotensive, tachycardic, with cool but dry skin.

What type of shock is most likely?

- a) Obstructive
- b) Hypovolemic
- c) Cardiogenic
- d) Septic
- e) Anaphylactic

answer:b

10) Which of the following is most likely to cause an immediate allergic reaction in the perioperative period?

- a) Opioid
- b) Muscle relaxant (MR)
- c) Local anesthesia
- d) Dexamethasone

answer:a

11) Which site is considered the best for measuring core body temperature?

- a) Bladder
- b) Tympanic membrane
- c) Axilla
- d) Rectal

answer:d

12) A 24-year-old patient, weighing 60 kg, has been fasting for 10 hours. How much IV fluid should be administered in the first hour?

- a) 300 mL
- b) 400 mL
- c) 500 mL
- d) 600 mL
- e) 450 ml

answer:c

13) Which factor most affects the onset of local anesthesia?

- a) Lipid solubility (baricity)
- b) pKa
- c) Protein binding
- d) Dose

answer:b

14) Which of the following is best indicated for use in status asthmaticus?

- a) Propofol
- b) Midazolam
- c) Ketamine
- d) Fentanyl

answer:c

15) Which of the following statements about opioids is incorrect?

- a) Cause respiratory depression
- b) Cause analgesia
- c) Cause sedation
- d) Decrease secretion of antidiuretic hormone (ADH)

answer:d

16) A 40-year-old patient with diabetes mellitus, hypertension, and BMI > 37 would be classified as:

- a) ASA I
- b) ASA II
- c) ASA III
- d) ASA IV

answer:c

17) Which of the following can cause bronchoconstriction?

- a) Atracurium
- b) Cisatracurium
- c) Rocuronium
- d) Vecuronium

answer:a

18)Activation of mu (μ) opioid receptors produces all of the following except:

- a) Analgesia
- b) Euphoria
- c) Respiratory depression
- d) Sedation
- e) Constipation

answer:d

19)Which of the following statements about opioids is WRONG?

- a) Cause analgesia via central nervous system effects
- b) Cause sedation
- c) Cause respiratory depression
- d) Subarachnoid administration does not cause direct analgesia at the spinal cord
- e) Can cause miosis and constipation

answer:d

20)The normal blood volume of a 70 kg adult male is approximately:

- a) 7% of body weight
- b) 10% of body weight
- c) 5% of body weight
- d) 15% of body weight

answer:a

21)Which of the following is not a recognized risk factor for increased morbidity and mortality during anesthesia?

- a) Age > 70 years
- b) History of smoking
- c) Hemoglobin < 10 g/dL
- d) Pulmonary edema < 1 week
- e) Patient diagnosed with DM and HTN for 20 years

answer:e

22)Which fluid is appropriate for use with the administration of blood products?

- a) Normal saline (N/S)
- b) Ringer's lactate (R/L)
- c) D5W
- d) Hydroxyethyl starch (HES)
- e) A and B

answer:a

23)Administration of a large volume of normal saline (0.9%) is most likely to produce:

- a) No change in acid-base status
- b) Hyperchloremic metabolic acidosis
- c) Hypochloremic metabolic acidosis
- d) Hyperchloremic metabolic alkalosis
- e) Hypochloremic metabolic alkalosis

answer:b

24)Which of the following statements about the adult airway is FALSE?

- a) It extends from C3 to C6.
- b) The trachea has 15–20 C-shaped cartilages.
- c) The superior laryngeal nerve supplies the cricothyroid muscle.
- d) The superior vocal cords are known as true vocal cords and serve a protective function.

answer:d

25)Which of the following mixtures of gases are commonly used in anesthesia?

- a) O₂ and N₂O
- b) O₂ and CO₂
- c) CO₂ and N₂O
- d) O₂, CO₂ and N₂O
- e) O₂ and He

answer:a

26)Regarding early complications of head injury, all of the following may occur except:

- a) Cerebral edema
- b) Herniation
- c) Hydrocephalus
- d) Meningitis
- e) Epilepsy

answer:c

27)In ECG, the leads V1–V2 primarily represent which area of the heart?

- a) Septal
- b) Anterior wall
- c) Lateral wall
- d) Inferior wall

answer:a

28)The main reason desflurane is not commonly used for inhalational induction in clinical practice is:

- a) Its low blood/gas partition coefficient
- b) Its propensity to produce hypertension in high concentrations
- c) Its propensity to produce airway irritability
- d) Its propensity to produce tachyarrhythmias
- e) Its lipid solubility

answer:c

29)A cigarette vendor was brought to the ED after falling and injuring her left leg. She is tachycardic and tachypneic. Painkillers were given, but she suddenly complains of muscle cramps, tingling, and paresthesia.

ABG:

- pH = 7.6
- PaO₂ = 120 mmHg
- PaCO₂ = 31 mmHg
- HCO₃⁻ = 25 mmol/L

What is the most likely acid–base disturbance?

- a) Respiratory Alkalosis, Uncompensated
- b) Respiratory Acidosis, Partially Compensated
- c) Metabolic Alkalosis, Uncompensated
- d) Metabolic Alkalosis, Partially Compensated
- e) Respiratory Alkalosis, Fully Compensated

answer:a

30)Which of the following is NOT a complication of massive blood transfusion?

- a) Hypocalcemia
- b) Hyperkalemia
- c) Hypothermia
- d) Coagulopathy
- e) Hypercalcemia

answer:e

31) All of the following increase Minimum Alveolar Concentration (MAC) of inhalational anesthetics EXCEPT:

- a) Hyperthermia
- b) Chronic alcoholism
- c) Hypernatremia
- d) Hyperthyroidism

answer:d

32) All of the following are true about opioids EXCEPT:

- a) Cause miosis
- b) Cause constipation
- c) Cause respiratory depression
- d) Decrease secretion of ADH
- e) Can cause physical dependence

answer:d

33) Which of the following statements about opioids is WRONG?

- a) Cause miosis
- b) Cause constipation
- c) Cause respiratory depression
- d) Increase sensitivity of the respiratory center to CO₂
- e) Can cause physical dependence

answer:d

34) All of the following are contraindications of spinal anesthesia EXCEPT:

- a) Grade 1 – Full view of the glottis
- b) Grade 2 – Partial view of the glottis
- c) Grade 3 – Can see arytenoids
- d) Grade 4 – No glottic structures visible

answer:c

35) Which of the following statements about Cormack–Lehane laryngoscopic grading is WRONG?

- a) Patient refusal
- b) Severe hypovolemia
- c) Increased intracranial pressure (ICP)
- d) Local infection at the puncture site
- e) Patient height of 150 cm

answer:e

36) Minute ventilation is calculated by which of the following formulas?

- a) Tidal volume /Respiratory rate
- b) Respiratory rate /Tidal volume
- c) Tidal volume × Respiratory rate
- d) Tidal volume × Dead space
- e) Dead space × Respiratory rate

answer:c

37)All of the following factors affect the accuracy of a flowmeter EXCEPT:

- a) Temperature
- b) Pressure
- c) Viscosity of the gas
- d) Density of the gas
- e) Medium gas flow

answer:e

38)All of the following are used in assessing brain death EXCEPT:

- a) Clinical examination (coma, absent brainstem reflexes)
- b) Apnea test
- c) EEG (electrocerephalography)
- d) Cerebral blood flow studies (angiography)
- e) None of the above

answer:e

39)Which of the following effects on ventilation is typically seen with volatile anesthetics?

- a) Decrease tidal volume, increase respiratory rate
- b) Increase tidal volume, increase respiratory rate
- c) Increase tidal volume, decrease respiratory rate
- d) Decrease tidal volume, decrease respiratory rate

answer:c

40)Which of the following benzodiazepines is considered long-acting?

- a) Midazolam
- b) Lorazepam
- c) Temazepam
- d) Diazepam
- e) Triazolam

answer:d