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Course Name : D. Pharm

Year : Second Year

Subject Name : Pharmacology

Topic Name : General anaesthetics

MULTIPLE CHOICE QUESTION

1. Which of the following is a primary characteristic of general anesthetics?

- A) Pain relief
- B) Muscle relaxation
- C) Consciousness suppression
- D) Sensory enhancement

Answer: C) Consciousness suppression

2. Which organ system is primarily affected by general anesthetics?

- A) Nervous system
- B) Respiratory system
- C) Cardiovascular system
- D) Endocrine system

Answer: A) Nervous system

3. Which of the following is a common intravenous general anesthetic?

- A) Nitrous oxide
- B) Isoflurane
- C) Propofol
- D) Sevoflurane

Answer: C) Propofol

4. Inhalational general anesthetics are administered via which route?

- A) Intravenous injection
- B) Oral tablets
- C) Inhalation
- D) Subcutaneous injection

Answer: C) Inhalation

5. Which general anesthetic is often used for induction of anesthesia due to its rapid onset and short duration?

- A) Nitrous oxide
- B) Desflurane
- C) Ketamine
- D) Midazolam

Answer: B) Desflurane

6. Which of the following is a potential side effect of general anesthetics?

- A) Hypertension
- B) Bradycardia
- C) Hyperactivity
- D) Increased awareness during surgery

Answer: D) Increased awareness during surgery

7. General anesthetics primarily exert their effects on which type of receptors in the central nervous system?

- A) NMDA receptors
- B) GABA receptors
- C) Dopamine receptors
- D) Serotonin receptors

Answer: B) GABA receptors

8. Which of the following general anesthetics is associated with the risk of malignant hyperthermia?

- A) Nitrous oxide
- B) Isoflurane
- C) Propofol
- D) Sevoflurane

Answer: D) Sevoflurane

9. Which of the following statements about nitrous oxide is true?

- A) It is a potent analgesic.
- B) It has a rapid onset of action.
- C) It is administered via intravenous injection.
- D) It is associated with a high risk of post-operative nausea and vomiting.

Answer: A) It is a potent analgesic.

10. Which general anesthetic is commonly used in pediatric patients due to its bronchodilator properties and relatively pleasant odor?

- A) Nitrous oxide
- B) Isoflurane
- C) Halothane
- D) Sevoflurane

Answer: D) Sevoflurane

11. Which of the following general anesthetics is a dissociative anesthetic that provides sedation, analgesia, and amnesia?

- A) Nitrous oxide
- B) Propofol
- C) Ketamine
- D) Etomidate

Answer: C) Ketamine

12. What is the primary advantage of using intravenous general anesthetics over inhalational agents?

- A) Faster recovery time
- B) Lower risk of post-operative nausea and vomiting
- C) Greater control of depth of anesthesia
- D) Reduced risk of malignant hyperthermia

Answer: C) Greater control of depth of anesthesia

13. Which of the following general anesthetics is associated with a higher risk of cardiovascular depression?

- A) Nitrous oxide
- B) Sevoflurane
- C) Desflurane
- D) Etomidate

Answer: D) Etomidate

14. Which general anesthetic is commonly used for maintenance of anesthesia during longer surgical procedures?

- A) Isoflurane
- B) Nitrous oxide
- C) Propofol
- D) Sevoflurane

Answer: A) Isoflurane

15. Which of the following is a potential complication associated with general anesthesia in elderly patients?

- A) Hypotension
- B) Hyperthermia
- C) Hypertension
- D) Tachycardia

Answer: A) Hypotension

16. Which general anesthetic is commonly used for induction of anesthesia in patients with compromised cardiovascular function?

- A) Sevoflurane
- B) Propofol
- C) Etomidate
- D) Nitrous oxide

Answer: B) Propofol

17. Which of the following statements about general anesthetics is true?

- A) They primarily affect the peripheral nervous system.
- B) They typically have a stimulating effect on the central nervous system.
- C) They are contraindicated in patients with anxiety disorders.
- D) They may cause respiratory depression.

Answer: D) They may cause respiratory depression.

18. Which general anesthetic is associated with the risk of hepatotoxicity?

- A) Isoflurane
- B) Halothane
- C) Desflurane
- D) Sevoflurane

Answer: B) Halothane

19. Which of the following general anesthetics is commonly used for procedural sedation outside the operating room?

- A) Propofol
- B) Nitrous oxide
- C) Sevoflurane
- D) Isoflurane

Answer: A) Propofol

20. Which of the following is a potential side effect of general anesthetics in the post-operative period?

- A) Hypertension
- B) Respiratory depression
- C) Hyperglycemia
- D) Bradycardia

Answer: B) Respiratory depression