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Course Name : D. Pharm

Year : Second Year

Subject Name: Pharmacology

Topic Name: Hypnotics and sedatives

Hypnotics and sedatives

MULTIPLE CHIOCE QUESTION

- 1. Which of the following is a primary characteristic of hypnotics and sedatives?
- A) Pain relief
- B) Muscle relaxation
- C) Consciousness suppression
- D) Sensory enhancement

Answer: C) Consciousness suppression

- **2.** Which neurotransmitter system is primarily targeted by most hypnotics and sedatives?
- A) Dopaminergic
- B) Serotonergic
- C) GABAergic
- D) Cholinergic

Answer: C) GABAergic

- **3.** Which of the following medications is a benzodiazepine commonly used as a sedative-hypnotic?
- A) Zolpidem
- B) Diphenhydramine
- C) Lorazepam
- D) Melatonin

Answer: C) Lorazepam

- **4.** Which type of sedative-hypnotic drug is often used for short-term treatment of insomnia?
- A) Benzodiazepines
- B) Barbiturates
- C) Non-benzodiazepine receptor agonists
- D) Antihistamines

Answer: C) Non-benzodiazepine receptor agonists

- 5. Which of the following is a potential side effect of benzodiazepine use?
- A) Respiratory depression
- B) Bradycardia
- C) Hyperactivity

D) Hypertension

Answer: A) Respiratory depression

- **6.** Zolpidem belongs to which class of medications?
- A) Benzodiazepines
- B) Barbiturates
- C) Non-benzodiazepine receptor agonists
- D) Antidepressants

Answer: C) Non-benzodiazepine receptor agonists

- 7. Which of the following statements about benzodiazepines is true?
- A) They have a high risk of dependence and addiction.
- B) They primarily target the histaminergic system.
- C) They are contraindicated in patients with depression.
- D) They are commonly used as first-line treatment for insomnia.

Answer: A) They have a high risk of dependence and addiction.

- **8.** Which neurotransmitter is targeted by barbiturates?
- A) Serotonin
- B) GABA
- C) Dopamine
- D) Glutamate

Answer: B) GABA

- 9. Which of the following is a potential side effect of barbiturate use?
- A) Increased anxiety
- B) Respiratory depression
- C) Hypertension
- D) Insomnia

Answer: B) Respiratory depression

- **10.** Which of the following drugs is commonly used as a sedative in the intensive care unit (ICU) setting?
- A) Lorazepam
- B) Zolpidem
- C) Midazolam
- D) Diphenhydramine

Answer: C) Midazolam

- **11.** Which of the following statements about non-benzodiazepine receptor agonists is true?
- A) They have a high risk of respiratory depression.
- B) They are typically used for long-term treatment of insomnia.
- C) They have a low risk of dependence and addiction.
- D) They primarily target the cholinergic system.

Answer: C) They have a low risk of dependence and addiction.

- **12.** Which of the following is a potential side effect of sedative-hypnotic medications?
- A) Hypertension
- B) Hyperactivity
- C) Memory impairment
- D) Increased appetite

Answer: C) Memory impairment

- 13. Ramelteon is a medication used for the treatment of:
- A) Anxiety disorders
- B) Depression
- C) Narcolepsy
- D) Insomnia

Answer: D) Insomnia

- **14.** Which of the following is an example of an antihistamine often used for its sedative properties?
- A) Lorazepam
- B) Zolpidem
- C) Diphenhydramine
- D) Melatonin

Answer: C) Diphenhydramine

- **15.** Which sedative-hypnotic medication is commonly used for its anxiolytic properties in addition to its sedative effects?
- A) Zolpidem
- B) Lorazepam
- C) Ramelteon
- D) Melatonin

Answer: B) Lorazepam

- **16.** Buspirone is a medication primarily used for the treatment of:
- A) Insomnia
- B) Anxiety disorders
- C) Depression
- D) Bipolar disorder

Answer: B) Anxiety disorders

- **17.** Which of the following is a potential complication associated with the use of sedative-hypnotic medications in the elderly?
- A) Hypertension
- B) Hypokalemia
- C) Falls and fractures
- D) Hyperglycemia

Answer: C) Falls and fractures

- **18.** Which of the following sedative-hypnotics is commonly used for pre-operative sedation?
- A) Melatonin
- B) Diphenhydramine
- C) Lorazepam
- D) Midazolam

Answer: D) Midazolam

- **19.** Which of the following is a potential risk associated with the long-term use of sedative-hypnotic medications?
- A) Weight loss
- B) Tolerance and dependence
- C) Hypotension
- D) Increased energy levels

Answer: B) Tolerance and dependence

- **20.** Which neurotransmitter system is primarily targeted by melatonin receptor agonists used for the treatment of insomnia?
- A) GABA
- B) Serotonin
- C) Dopamine
- D) Norepinephrine

Answer: B) Serotonin