



Mr. Prem Prakash (M.Pharm, Pursuing Ph.D.)
Principal
Rudrapur College of Management and Technology,
Rudrapur, Uttarakhand

OFFICE:

BUILDING No. 3/314, OFFICE-1, GAUSHALA ROAD, SHAMLI DISTRICT SHAMLI (U.P.) - 247776

Mobile: +91-9719638415

Email: arvindrkgit@gmail.com, www.phbeducation.com

D. Pharm Exit Exam - 2024

Course Name : D. Pharm

Year : First Year

Subject Name: Pharmaceutical Chemistry

Topic Name: Antidepressants

Anti-Depressants

MULTIPLE CHIOCE QUESTION

- **1.** What is the primary mechanism of action of selective serotonin reuptake inhibitors (SSRIs)?
- a) Inhibition of serotonin and norepinephrine reuptake
- b) Inhibition of monoamine oxidase
- c) Enhancement of serotonin neurotransmission
- d) Blockade of dopamine receptors

Answer: c) Enhancement of serotonin neurotransmission

- 2. Which of the following is a commonly prescribed SSRI?
- a) Amitriptyline
- b) Venlafaxine
- c) Fluoxetine
- d) Phenelzine

Answer: c) Fluoxetine

- **3.** Tricyclic antidepressants (TCAs) primarily inhibit the reuptake of which neurotransmitters?
- a) Serotonin and dopamine
- b) Serotonin and norepinephrine
- c) Norepinephrine and dopamine
- d) GABA and glutamate

Answer: b) Serotonin and norepinephrine

- 4. Which antidepressant class is known for its potential anticholinergic side effects?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: b) TCAs

- **5.** Monoamine oxidase inhibitors (MAOIs) work by inhibiting the breakdown of which neurotransmitters?
- a) Serotonin and norepinephrine
- b) Dopamine and GABA
- c) Norepinephrine and dopamine

d) Serotonin and dopamine

Answer: c) Norepinephrine and dopamine

- **6.** Bupropion, a commonly prescribed antidepressant, is primarily known for its action on which neurotransmitter?
- a) Serotonin
- b) Norepinephrine
- c) Dopamine
- d) GABA

Answer: c) Dopamine

- **7.** Which antidepressant class carries a risk of potentially fatal serotonin syndrome when combined with certain medications?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: a) SSRIs

- **8.** Which of the following is an atypical antidepressant that inhibits both serotonin and norepinephrine reuptake?
- a) Mirtazapine
- b) Duloxetine
- c) Trazodone
- d) Moclobemide

Answer: b) Duloxetine

- **9.** Which antidepressant class is typically considered the first-line treatment for depression due to their favorable side effect profile?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: a) SSRIs

- **10.** Which neurotransmitter is targeted by drugs that block the enzyme monoamine oxidase?
- a) Serotonin
- b) Dopamine
- c) Norepinephrine

d) All of the above

Answer: d) All of the above

- **11.** Which antidepressant class is commonly associated with sexual dysfunction as a side effect?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: a) SSRIs

- 12. Which of the following is a potential side effect of tricyclic antidepressants (TCAs)?
- a) Weight gain
- b) Insomnia
- c) Orthostatic hypotension
- d) Anxiety

Answer: c) Orthostatic hypotension

- **13.** Which antidepressant class requires dietary restrictions due to the risk of hypertensive crisis?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: c) MAOIs

- **14.** Venlafaxine is classified as which type of antidepressant?
- a) SSRI
- b) TCA
- c) SNRI
- d) MAOI

Answer: c) SNRI

- **15.** Which of the following is a common side effect of bupropion?
- a) Weight gain
- b) Sedation
- c) Increased appetite
- d) Seizures

Answer: d) Seizures

- **16.** Which antidepressant is sometimes used off-label for smoking cessation?
- a) Amitriptyline
- b) Paroxetine
- c) Bupropion
- d) Phenelzine

Answer: c) Bupropion

- **17.** Which neurotransmitter is thought to be involved in the pathophysiology of depression and targeted by most antidepressants?
- a) Glutamate
- b) Dopamine
- c) Serotonin
- d) Acetylcholine

Answer: c) Serotonin

- 18. Which antidepressant is commonly used in the treatment of anxiety disorders?
- a) Fluoxetine
- b) Amitriptyline
- c) Venlafaxine
- d) Paroxetine

Answer: d) Paroxetine

- **19.** Which antidepressant class has a potential risk of causing hypertensive crisis when combined with foods containing tyramine?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: c) MAOIs

- **20.** Which antidepressant is known for its sedative properties and is sometimes used off-label for insomnia?
- a) Venlafaxine
- b) Trazodone
- c) Bupropion
- d) Fluoxetine

Answer: b) Trazodone

- **21.** Which neurotransmitter system is primarily targeted by SSRIs?
- a) GABAergic system
- b) Cholinergic system
- c) Serotonergic system
- d) Adrenergic system

Answer: c) Serotonergic system

- **22.** Which antidepressant class is most commonly associated with weight gain as a side effect?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: b) TCAs

- **23.** Which atypical antidepressant is often used as an adjunctive therapy for depression in individuals with insomnia?
- a) Mirtazapine
- b) Duloxetine
- c) Trazodone
- d) Bupropion

Answer: a) Mirtazapine

- **24.** Which of the following is a potential side effect of SSRIs in pediatric patients?
- a) Growth suppression
- b) Hyperactivity
- c) Hypoglycemia
- d) Osteoporosis

Answer: a) Growth suppression

- **25.** Which antidepressant class is least likely to cause sexual dysfunction as a side effect?
- a) SSRIs
- b) TCAs
- c) MAOIs
- d) Atypical antidepressants

Answer: d) Atypical antidepressants