



**Miss. Avnica Tyagi [M. Pharm, Ph.D. (Pur.)]
Associate Professor
Shri Ram College of Pharmacy, Muzaffarnagar (U.P.)**

D. Pharm Exit Exam 2024

Course Name	: D. Pharm
Year	: First Year
Subject Name	: Pharmaceutical Chemistry
Topic Name	: Antipsychotics

MULTIPLE CHOICE QUESTIONS

1. What is the definition of antipsychotics?

- a) Drugs used to treat anxiety disorders
- b) Medications used to manage psychotic symptoms
- c) Agents for reducing blood pressure
- d) Medicines for treating bacterial infections

Answer: b) Medications used to manage psychotic symptoms

2. Antipsychotics are primarily classified into which category based on their chemical structure?

- a) Benzodiazepines
- b) Antidepressants
- c) Phenothiazines
- d) NSAIDs

Answer: c) Phenothiazines

3. Which of the following is NOT a mode of action of antipsychotic drugs?

- a) Dopamine receptor blockade
- b) Serotonin receptor blockade
- c) GABA receptor activation
- d) Histamine receptor blockade

Answer: c) GABA receptor activation

4. What are the primary uses of antipsychotic medications?

- a) Treatment of depression
- b) Management of anxiety disorders
- c) Control of psychotic symptoms
- d) Relief of pain

Answer: c) Control of psychotic symptoms

5. How should antipsychotic medications be stored?

- a) In direct sunlight
- b) At room temperature
- c) In the freezer
- d) In a humid environment

Answer: b) At room temperature

6. Which class of antipsychotic drugs has a higher risk of extrapyramidal side effects?

- a) First-generation antipsychotics
- b) Second-generation antipsychotics
- c) Third-generation antipsychotics

d) Benzodiazepines

Answer: a) First-generation antipsychotics

7. Clozapine belongs to which generation of antipsychotic drugs?

a) First-generation

b) Second-generation

c) Third-generation

d) Fourth-generation

Answer: b) Second-generation

8. Which neurotransmitter system is primarily targeted by antipsychotic medications?

a) Dopamine

b) Serotonin

c) GABA

d) Acetylcholine

Answer: a) Dopamine

9. Antipsychotics are commonly used in the treatment of which disorder?

a) Obsessive-compulsive disorder (OCD)

b) Bipolar disorder

c) Social anxiety disorder

d) Attention-deficit/hyperactivity disorder (ADHD)

Answer: b) Bipolar disorder

10. Which antipsychotic drug is associated with a risk of agranulocytosis and requires regular blood monitoring?

a) Haloperidol

b) Risperidone

c) Quetiapine

d) Clozapine

Answer: d) Clozapine

11. Olanzapine is commonly used to treat which symptom associated with schizophrenia?

a) Hallucinations

b) Delusions

c) Negative symptoms

d) Mania

Answer: d) Mania

12. What is the mechanism of action of first-generation antipsychotics?

a) Dopamine D2 receptor blockade

b) Serotonin receptor blockade

c) Norepinephrine reuptake inhibition

d) GABA receptor activation

Answer: a) Dopamine D2 receptor blockade

13. Which antipsychotic drug is known for its long-acting injectable formulation?

- a) Aripiprazole
- b) Lurasidone
- c) Paliperidone
- d) Ziprasidone

Answer: c) Paliperidone

14. Quetiapine is commonly used in the treatment of which condition?

- a) Bipolar disorder
- b) Major depressive disorder
- c) Generalized anxiety disorder
- d) Schizophrenia

Answer: a) Bipolar disorder

15. Which antipsychotic medication has a unique mechanism of action involving partial agonism at dopamine D2 and serotonin 5-HT_{1A} receptors?

- a) Risperidone
- b) Aripiprazole
- c) Clozapine
- d) Haloperidol

Answer: b) Aripiprazole

16. Which of the following side effects is NOT commonly associated with antipsychotic medications?

- a) Extrapyramidal symptoms
- b) Weight gain
- c) Sedation
- d) Hypertension

Answer: d) Hypertension

17. Which antipsychotic medication has a black box warning for QT prolongation?

- a) Olanzapine
- b) Quetiapine
- c) Clozapine
- d) Ziprasidone

Answer: d) Ziprasidone

18. A patient develops tardive dyskinesia after long-term use of an antipsychotic. Which class of antipsychotics is most commonly associated with this side effect?

- a) First-generation antipsychotics
- b) Second-generation antipsychotics
- c) Third-generation antipsychotics
- d) Benzodiazepines

Answer: a) First-generation antipsychotics

19. Which antipsychotic medication is commonly used as an adjunctive treatment for major depressive disorder?

- a) Aripiprazole
- b) Lurasidone
- c) Risperidone
- d) Quetiapine

Answer: d) Quetiapine

20. Which antipsychotic medication has a relatively low risk of metabolic side effects compared to other second-generation antipsychotics?

- a) Olanzapine
- b) Clozapine
- c) Aripiprazole
- d) Risperidone

Answer: c) Aripiprazole