

Global Pharmacology Insights

Pharmacology · Answer Key · 12 Questions

1. Which historical center of learning, located in modern-day Uzbekistan, was renowned for its medical and pharmacological contributions during the Islamic Golden Age, notably through figures like Avicenna?

- A) Cordoba, Spain
- B) Baghdad, Iraq
- C) Bukhara, Uzbekistan**
- D) Alexandria, Egypt

2. The development of the first synthetic antimalarial drug, Pamaquine, in the early 20th century, was a significant achievement of pharmacologists in which European nation?

- A) United Kingdom
- B) Germany**
- C) France
- D) Italy

3. Indigenous knowledge of plant-based medicines from the Amazon rainforest has led to the discovery of several important pharmaceutical compounds. Brazil is the country with the largest portion of this biodiversity. Which of these drugs, derived from Amazonian plants, is used as a muscle relaxant?

- A) Morphine
- B) Curare**
- C) Quinine
- D) Digitalis

4. The discovery of the antibiotic Penicillin by Alexander Fleming occurred in the United Kingdom. However, large-scale production and clinical trials that made it widely available were significantly advanced by efforts in which allied nation during World War II?

- A) Canada
- B) Australia
- C) United States**
- D) Soviet Union

5. Traditional Chinese Medicine (TCM) has a rich history of pharmacological practices. Which of these widely used TCM herbs, known for its adaptogenic properties, is native to northeastern China and the Korean peninsula?

A) Ginseng

B) Ginger

C) Turmeric

D) Licorice

6. The isolation and synthesis of the opioid painkiller Morphine in the early 19th century was achieved by a German pharmacist, Friedrich Sertürner. Germany has since been a leader in pharmaceutical innovation. Which major pharmaceutical company, with roots in Germany, is known for its development of insulin and vaccines?

A) Roche

B) Novartis

C) Bayer

D) Sanofi

7. The unique flora of the Australian continent has yielded valuable compounds. For instance, the Tasmanian native pepper berry is being studied for its anti-inflammatory properties. Which of these common medications is derived from a plant primarily cultivated in Australia?

A) Aspirin

B) Paracetamol

C) Eucalyptus oil (for respiratory relief)

D) Ibuprofen

8. The development of many modern psychotropic medications, including early antipsychotics and antidepressants, saw significant research and production originating from which European country, often referred to as the 'land of poets and thinkers'?

A) Switzerland

B) Netherlands

C) Austria

D) Belgium

9. The study of Ayurveda, an ancient Indian system of medicine, has provided a vast pharmacopeia of plant and mineral-based remedies. Which of these iconic Indian spices, widely used in Ayurvedic preparations, is known for its potent anti-inflammatory and antioxidant properties?

- A) Cumin
- B) Cardamom
- C) Turmeric**
- D) Coriander

10. The discovery of the anti-diabetic drug Metformin, now a cornerstone of Type 2 diabetes management worldwide, has historical ties to the study of compounds derived from which European plant, known historically as the 'goat's rue'?

- A) Foxglove
- B) Galega officinalis**
- C) Willow bark
- D) Valerian

11. The eradication of the smallpox virus, a monumental achievement in public health and pharmacology, involved widespread vaccination campaigns. The earliest known vaccine against smallpox, variolation, originated in which Asian country centuries before Edward Jenner's work?

- A) India
- B) China**
- C) Japan
- D) Korea

12. Many early anesthetics, such as ether and chloroform, were pioneered in the 19th century. While the United States played a significant role, a key figure in advocating for the safe use of ether as an anesthetic was a Scottish surgeon, James Young Simpson, who also championed chloroform. Scotland is part of which larger sovereign state?

- A) Republic of Ireland
- B) United Kingdom**
- C) Canada
- D) New Zealand