

## Moscou: Pharmacology for Pharmacy Technicians, 3rd Edition

# ANSWER KEY

## MOSCOU: *Pharmacology for Pharmacy Technicians*, 3rd Edition

### CHAPTER 1: Fundamentals of Pharmacology

#### Textbook

#### REVIEW QUESTIONS

1. A
2. C
3. A
4. B
5. D
6. C
7. A
8. B
9. D
10. A

#### TECHNICIAN'S CORNER

1. Thousands of chemical compounds may be tested before one is released to the public. The steps from test tube to review and distribution of a new drug include the following steps: preclinical research, clinical studies, new drug application process, and review. All manufacturers of new drugs must submit data showing that their drug is reasonably safe before preliminary small-scale clinical study is approved. Preclinical research is conducted to determine a pharmacological profile for the drug and acute toxicity of the drug in at least two species of animals. On completion of the preclinical phase, drug manufacturers file an investigational new drug (IND) application. Only approved investigational new drugs move through the clinical study phase. If safety and effectiveness can be demonstrated, the drug begins the new drug application process and then moves on to review. When all the studies and reviews are completed and the safety and effectiveness of the drug can be demonstrated, permission is granted for manufacture of the drug for public use.

2. One will need to explain to the client the following: once a drug comes off patent, other drug companies may manufacture a generic equivalent of the drug. Generic drugs contain the same active ingredient as the brand name drug, in the same strength and dosage form. One difference between trade and generic drugs is that the generic drug may contain different inactive ingredients like fillers that may affect how much drug is available to produce a drug action or how quickly the effect of the drug is produced. Most generic drugs show no significant differences and have received approval from the US Food and Drug Administration.

#### Workbook

#### TERMS AND DEFINITIONS

1. N
2. O
3. G
4. I, M

- 5. L, K
- 6. D, H
- 7. C
- 8. P
- 9. F
- 10. B
- 11. Q
- 12. A
- 13. J
- 14. E

**MULTIPLE CHOICE**

- 1. C
- 2. A
- 3. E
- 4. A
- 5. C
- 6. C
- 7. A
- 8. B
- 9. C
- 10. E

**MATCHING**

- 1. B
- 2. D
- 3. C
- 4. A
- 5. G
- 6. F
- 7. E

**TRUE/FALSE**

- 1. T
- 2. T
- 3. T
- 4. T
- 5. T
- 6. T
- 7. T
- 8. F
- 9. F
- 10. T

**CRITICAL THINKING**

Answers will vary.

**RESEARCH ACTIVITY**

Answers will vary.

**CASE STUDY**

Answers will vary.