

UNIT 16: DRUG DEVELOPMENT

Fill in the gaps with appropriate words

1. Synthetic drugs are better controlled than _____ occurring naturally.
2. Analogues may be more effective and cause fewer side effects than the drugs _____ which they were derived.
3. The first drug _____ in this manner was the hormone insulin in.
4. _____ the great expense and time involved, most new drugs are created by large, well-funded pharmaceutical companies.
5. The drug is tested first on small animals such as rats and mice, and _____ on larger animals such as monkeys and dogs.
6. These experiments are usually divided into three phases, each of _____ can last from several months to several years.
7. _____ the investigating physicians nor the members of the test group know who is receiving the drug or who is receiving the placebo.

COMPLETION: Complete the paragraph with the words on the list.

1. approve
2. compound
3. double-blind
4. effective
5. marketing
6. outweigh
7. phases
8. placebo
9. requests
10. testing

Once drug researchers have determined that a new substance may have medical value, an elaborate _____ program begins. The drug is tested first on small animals and then on larger animals. If these tests indicate that the new drug is _____ against a particular disease and shows an acceptably low level of toxicity, the drug company _____ permission from the Ministry of Health to test the drug in humans.

If the agency _____ the request, clinical trials on humans can begin. These experiments are usually divided into three _____. These individuals are divided into two groups: those who receive the drug and those who receive a _____, or inactive _____. Neither the investigating physicians nor the members of the test group know who is receiving the drug or who is receiving the placebo. This technique is called a _____ study. If the drug has been proven effective and safe, and its benefits _____ any risks, the agency approves the drug for _____.

Fill in the gaps with appropriate words with their initial letters given

1. Today most drugs are s_____ by chemists in the laboratory.
2. Synthetic drugs are better c_____ than those occurring naturally.
3. Some new synthetic drugs are d_____ by modifying the structure of existing substances.
4. A_____ may be more effective and cause fewer side effects than the drugs from which they were derived.

5. E_____ a hormone used to stimulate the production of red blood cells in people with severe anemia.
6. A new drug is usually t_____ first on small animals such as rats and mice, and then on larger animals such as monkeys and dogs.
7. If the drug has been proven effective and safe, and its benefits outweigh any risks, the related authority a_____ the drug for marketing.