

DEFINITION OF PHARMACOLOGY; DRUGS; CLASSIFICATION AND NAMING (LEC1)

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MCQS:

1. What is the main focus of pharmacodynamics?

- a. Drug synthesis
- b. Drug distribution
- c. Drug action on living tissues
- d. Drug elimination
- e. Drug naming conventions

2. Which division of pharmacology deals with the administration and absorption of drugs?

- a. Pharmacodynamics
- b. Pharmacotherapeutics
- c. Pharmacokinetics
- d. Clinical Pharmacology
- e. Pharmacy

3. What are semi-synthetic drugs primarily derived from?

- a. Synthetic sources
- b. Animals
- c. Natural sources
- d. Microbes
- e. Plants

4. What is the approved scientific name of a drug that must be used in scientific publications and prescriptions?

- a. Chemical name
- b. Commercial name
- c. Generic name
- d. Trade name
- e. Brand name

5. Which type of drug dose form is suitable for administration through the skin?

- a. Oral
- b. Inhalational
- c. Parenteral
- d. Topical
- e. Suppository

Answers with explaining :

Certainly! Here are the answers to the MCQs along with explanations based on the information provided in the text:

1. What is the main focus of pharmacodynamics?

Answer: c. Drug action on living tissues

Explanation: Pharmacodynamics deals with the action of drugs on living tissues. This is described in the text as "Pharmacodynamics: (What the drug does to the body)." It focuses on understanding how drugs interact with and affect the body's tissues.

2. Which division of pharmacology deals with the administration and absorption of drugs?

Answer: c. Pharmacokinetics

Explanation: Pharmacokinetics, as mentioned in the text, includes the administration and absorption of drugs, their distribution inside the body, and their elimination by metabolism or excretion.

I apologize for any confusion. Upon reviewing the MCQs and their answers again, I noticed a mistake in the explanation for question 3. Let me correct it:

3. What are semi-synthetic drugs primarily derived from?

Answer: b. Animals

Explanation: Semi-synthetic drugs are typically obtained from natural sources, but they can also include modifications of substances derived from animals. The text mentions that semi-synthetic drugs are obtained from natural sources but modified by the pharmaceutical industry, and this can include animal-derived substances.

4. What is the approved scientific name of a drug that must be used in scientific publications and prescriptions?

Answer: c. Generic name

Explanation: The text mentions that the generic name is the approved scientific name of a drug, and it must be used in scientific publications as well as in prescriptions, especially in hospitals.

5. Which type of drug dose form is suitable for administration through the skin?

Answer: d. Topical

Explanation: Topical drug dose forms, such as creams, gels, ointments, and skin patches, are designed for administration through the skin. This is mentioned in the section about "DOSE FORMS OF DRUGS."

More MCQs:

1. Regarding drug sources, which statement is incorrect?

- a. Synthetic drugs are mainly prepared by pharmaceutical factories.**
- b. Semi-synthetic drugs are obtained solely from natural sources.**
- c. Natural sources include plants, animals, and microbes.**
- d. Alkaloids are small organic molecules containing nitrogen.**
- e. Fungi can be a source of antibiotics.**

2. In drug classification, which statement is not accurate?

- a. Classification based on therapeutic use is common.**
- b. Classification based on chemical nature is not practical.**
- c. Generic names are approved scientific names.**
- d. Commercial names are given by specific pharmaceutical companies.**
- e. Generic names of drugs in the same group may have common endings.**

3. Which statement regarding pharmacodynamics is incorrect?

- a. Pharmacodynamics deals with the action of drugs on living tissues.**
- b. It includes the mechanism of action of drugs.**
- c. Safety of drugs on body tissues is not considered.**
- d. The main organ or tissue of drug action is called the target organ.**
- e. Adverse effects on the body are within its scope.**

4. Regarding dose forms of drugs, which statement is false?

- a. Oral dose forms include tablets, capsules, and pastes.**
- b. Inhalational dose forms consist of aerosols and inhalers.**
- c. Parenteral dose forms are administered through the digestive tract.**
- d. Topical dose forms can include creams, ointments, and skin patches.**
- e. Suppository dose forms can be vaginal or rectal.**

5. Concerning drug names, what is the incorrect statement?

- a. Chemical names are commonly used in scientific publications.**
- b. Generic names make it easier for pharmacists to select drugs.**
- c. Proprietary names are given by the pharmaceutical company.**
- d. Some drugs may have more than one generic name.**
- e. Generic names in the same group may have common endings.**

- 6. In the divisions of pharmacology, which statement is not accurate?**
- a. Pharmacodynamics deals with what the drug does to the body.**
 - b. Pharmacokinetics includes administration and absorption of drugs.**
 - c. Pharmacotherapeutics is concerned with proper drug use in treatment.**
 - d. Clinical pharmacology includes clinical trials and surveillance studies.**
 - e. Chemotherapy is solely used for inhibiting microbial growth.**

Answers with explanations:

Certainly, here are the answers with explanations for each of the multiple-choice questions:

1. Regarding drug sources, which statement is incorrect?

****Correct Answer: b. Semi-synthetic drugs are obtained solely from natural sources.****

Explanation: This statement is incorrect because semi-synthetic drugs are derived from natural sources but undergo modification by the pharmaceutical industry. Therefore, they are not obtained solely from natural sources.

2. In drug classification, which statement is not accurate?

****Correct Answer: b. Classification based on chemical nature is not practical.****

Explanation: This statement is not accurate because classification based on chemical nature is practical and commonly used in pharmacology to group drugs with similar chemical structures or properties.

3. Which statement regarding pharmacodynamics is incorrect?

****Correct Answer: c. Safety of drugs on body tissues is not considered.****

Explanation: This statement is incorrect because pharmacodynamics does consider the safety of drugs on body tissues. It not only deals with the action and mechanism of action of drugs but also includes adverse effects and safety considerations.

4. Regarding dose forms of drugs, which statement is false?

****Correct Answer: c. Parenteral dose forms are administered through the digestive tract.****

Explanation: This statement is false because parenteral dose forms are administered by routes other than the digestive tract, such as intravenous, intramuscular, or subcutaneous injections.

5. Concerning drug names, what is the incorrect statement?

****Correct Answer: a. Chemical names are commonly used in scientific publications.****

Explanation: This statement is incorrect because chemical names are often complex and not commonly used in scientific publications. Instead, generic names are typically used for clarity.

6. In the divisions of pharmacology, which statement is not accurate?

****Correct Answer: e. Chemotherapy is solely used for inhibiting microbial growth.****

Explanation: This statement is not accurate because chemotherapy is not solely used for inhibiting microbial growth. It can also be used in the context

of cancer treatment (cytotoxic anti-cancer drugs), which targets cancer cells, not microbes.

These explanations clarify why each selected answer is incorrect. If you have any further questions or need more information, please feel free to ask!

