

**The list of questions for an interview in the discipline "Medical and pharmaceutical commodity science"
for students in the educational program of the specialist
specialty 33.05.01 Pharmacy
for 2022-2023 academic year**

1. Commodity science as a scientific discipline. Subject, purpose, tasks. Historical stages in the development of commodity science.
2. Concepts: product, consumer value, medical merchandising.
3. Use value and usefulness of the product. Individual and social use value. Definition of the term "consumer".
4. Consumer properties, characteristics. Consumer properties that determine the quality of medical and pharmaceutical products.
5. Characteristics of groups of consumer properties - social, functional, reliability, safety, ergonomic, aesthetic, environmental.
6. Classification of goods. Basic definitions, concepts. The purpose of the classification. The concept of classification. Classification methods.
7. Trade classification of goods. Characteristic. Place of medical and pharmaceutical products in the trade classification. Anatomical-therapeutic-chemical classification of medicines.
8. Goods coding. The structure of the code, its main elements. Characteristics of sequential, ordinal, serial-ordinal and parallel encoding methods (methods). Application in the commodity analysis of medicines. Bar coding of goods.
9. Quality, definition of the concept. The quality of medical and pharmaceutical products. Comprehensive quality assessment. Groups of quality indicators.
10. Quality indicators of medicines and medical devices.
11. The role of standards in preserving the use value and quality of goods. Types of standards and normative documentation. Types of normative documents used for medicines and medicinal products.
12. Standardization. General provisions. Standardization system for medical and pharmaceutical products.
13. Certification. General provisions. Certification of medical and pharmaceutical products.
14. Materials Science. Goal and tasks. Classification of materials. General characteristics of materials. Material properties: mechanical, chemical, technological, optical, electrical, etc.
15. Classification of the main types of raw materials for the production of medical and pharmaceutical products. Requirements for materials for medical devices.
16. metal materials. General characteristics. Classification. Alloys of iron with carbon.
17. metal materials. Nonferrous metals. General characteristics. Classification. Application for the manufacture of medical devices.
18. non-metallic materials. Concept, types. General characteristics.
19. Glass, characteristics of properties. Glass melting and production of glass products. Types of glasses used in the manufacture of medical devices.
20. Corrosion and anti -corrosion protection. Types of corrosion. Characteristics of methods of anticorrosion protection.
21. polymeric materials. Concept, classification, application. Requirements for polymers used in medicine.
22. Elastomers. Rubber (natural and synthetic) and rubber. Stages of technological production of rubber products. Rubber test. Latexes and products from them. Consumer properties of medical products made of rubber and latex.
23. plastic masses. Kinds. thermoplastic masses. thermosetting materials. The use of plastics for the manufacture of medical devices.

24. Storage of medicines as a factor that preserves the consumer properties of medical and pharmaceutical products. Basic principles of storage of medicines and medical devices.
25. The main functions and significance of packaging. Packing classification.
26. Characteristics of the main elements of packaging. Container as an element of packaging. Classification, types of packaging of medicines in accordance with the Global Fund.
27. General requirements for the packaging of medicines. Labeling of medical pharmaceutical products: characteristics, types, main elements, labeling carriers.
28. Definition of the terms "commodity analysis" and "commodity expertise". Function, goals and objectives of commodity analysis in health care. Principles, information basis of commodity analysis.
29. Methods of commodity analysis. Classification. General characteristics. Types of commodity analysis.
30. Organization of commodity analysis. Methodology for conducting merchandising analysis.
31. General characteristics, classification, assortment of dressing materials and means. Commodity analysis of dressing materials.
32. Commodity characteristics of drugs used in the treatment of diseases of the digestive system . Algorithm for conducting commodity analysis of drugs used in the treatment of diseases of the gastrointestinal tract.
33. Commodity distribution, sales, definition of concepts. Classification of marketing methods. Channels of distribution and sales channels of products, their characteristics.
34. Trade organizations as distribution channels. Characteristics, types of wholesale intermediaries, their functions. Organization of supplies of pharmaceutical products.
35. Types and structure of the contract for the supply of goods. Pre-trial procedure for settling disputes. Claims rules.
36. Organization of acceptance of goods in the pharmacy organization in terms of quantity and quality.
37. Characteristics and main consumer properties of sanitary and hygienic products and care products for sick children. Commodity analysis of sanitary and hygienic products.
38. Characteristics and main consumer properties of biologically active additives, Commodity analysis of biologically active additives.
39. Characteristics and main consumer properties of specialized food products, perfumes and cosmetics. Commodity analysis of specialized food products.
40. Characteristics and main consumer properties of perfumery and cosmetic products. Commodity analysis of perfumery and cosmetic products.