Questions to offset
on the subject "Medical Informatics"
for students of the 1st course of medical faculty

1. Information. Properties and types of information.
2. Data, method. Data operations.
3. Methods and means of informatization in medicine and health care.
4. Computer graphics.
5. Resolution and image size. Color models.
6. Formats of graphic files.
7. Modeling. Model. Elements of the modeling process. Stages of the modeling process. Stages of the modeling process.
8. Types of models. Classification of models relative to the carrier. Modeling. Tool. Technology. Wednesday.
9. Gene networks as an object of modeling. Methods of modeling gene networks and their classification. Problems of mathematical modeling of gene networks.
10. Generalized chemical-kinetic modeling method. Formal description of mathematical and computer models of gene networks
11. Gene networks as an object of study. The main elements of the gene network. Boolean networks.
12. Specificity of the object of modeling. Construction of graphic models of gene networks.
13. Modeling methodology in OHKMM. Formalization in OHKMM
14. Verification of the parameters of mathematical models of the dynamics of gene networks. Main problems.
15. Computer networks. Classification of computer networks. Types of transmission media.
16. Addressing on the Internet. Protocols. TCP / IP protocols.
17. Email. Browsers Interface elements of the browser window.
18. Search engines. Types of search.
19. Medical library systems. Internet resources in medicine.
20. Distance learning. The concept of telemedicine.
21. Medical informatics. Information Systems. Classification MIS. The basic principles of building an IIA.
22. Stationary subsystem.
23. Polyclinic subsystem.
24. Subsystem Diagnostic Services. Lab module.
25. IIA level of health facilities.
26. Medical and technological systems of control and management of body functions.
27. AWP of the doctor of the medical department (basic functions and principles of work).
28. IIA resuscitation and intensive care.
29. IIA diagnostic services.
30. MIS territorial and federal level.
31. Security. Security system tasks. Breach of confidentiality.

32. Security features. Functions of the security subsystem.

33. Stages of building a security system. Methods and means of security.

34. Encryption of information. Electronic digital signature.

35. Medical information. The main methods of entering information in the database.

36. Electronic document. Electronic document management.

37. Mandatory sections of an electronic document.

38. Ways of storing ED. Levels of documentation.

39. Database. Database management system. Types of databases. Subject area. Information system.

40. Database objects. Modes of creating database objects (3 modes, briefly describe).

41. Relational databases. Create and modify relationships between tables. Two methods for maintaining communication integrity (cascade update and cascade delete).

42. Creating tables in the database. Field and entry table. Setting field properties.

43. The concept of input mask in the database. The substitution field (definition and its value). Key. Types of keys.

44. Modes of creating forms and reports in MS Access.

45. Request. QBE query by sample. SQL queries. Modes for creating queries in MS Access.

46. Spreadsheet. Cell. Spreadsheet workspace. Excel workbook. Excel sheet. Cell range Relative and absolute links. Formula. Entering formulas in the cell.

47. Functions in MS Excel. Arguments and syntax functions. Classification of functions. Master functions. Graphs and charts in MS Excel. Chart Wizard. Editing and formatting graphs and charts.

48. Excel package environments: an embedded program (macro) that performs the search procedure for the best parameters, the optimization solution search procedure and the Analysis Package.

49. Presentations. Types of presentation. Stages of creating a presentation. The main interface elements of the program Power Point. Modes for viewing a slide in MS Power Point.

50. Ways to create a presentation. List and describe briefly. Working with slides (add, delete, change the order of slides, change the layout of the slide).

51. MS Word. Create, edit and format a document. Interface elements of the application window.

52. Creating, editing tables in MS Word. Rules for the design of the table.

53. Page Layout. The main parameters of the page. Tab in the text and table.

54. The process of adding formulas and flowcharts to a text document.