OŃTÚSTIK-QAZAQSTAN **MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ	SKMA – 1979 –	SOUTH KAZAKHSTAN **MEDICAL ACADEMY** АО «Южно-Казахстанская медицинская академия»
Department of "Medical Biophysics and Information Technology"		№ 35-11(И)-2024
Questions of the program for the final control		p.1 out of 4

Questions of the program for the final control

Course: Information and communication technology
Course code: ICT 1105
EP: 6B10115 Medicine.
    6B10116Pediatrics
    6B10117 Stomatology
    6B10104 Nursing
    6B10111 Public health
    6B10106 Pharmacy
    6B07201 Pharmaceutical manufacturing technology
    6B10118 Medical and preventive care
Number of academic hours/credits: 150/5
Year: 1
Term: 1,2

Implementators   ass.professor PhD Ivanova Marina Borisovna
              PhD. Berdiyeva Meruyert Aimambetovna

Head of department: PhD, acting ass.prof. Ivanova M.B.

Departmental discussion on « 3 » 10 2024

Record of meeting № 4

OŃTÚSTIK-QAZAQSTAN **MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ	SOUTH KAZAKHSTAN **MEDICAL ACADEMY** АО «Южно-Казахстанская медицинская академия»	
Department of "Medical Biophysics and Information Technology"		№ 35-11(И)-2024
Questions of the program for the final control		p.2 out of 4

Questions of the program for the second midterm control

1. Safety rules.
2. ICT subject and its purpose.
3. The role in key sectors of development of society.
4. Openness of state bodies.
5. Introduction of new model of Informatization of state authorities
6. ICT in education and science.
7. ICT in industry.
8. Development of E-health.
9. Development of E-commerce.
10. The first generation.
11. The second generation.
12. The third generation.
13. The fourth generation.
14. Motherboard.
15. Processor (CPU).
16. The system bus.
17. Memory.
18. Drives on hard magnetic disks (HDD).
19. Drive CD-ROM.
20. Flash-Memory.
21. Input devices.
22. Output devices.
23. Computer Systems in education
24. Computer Systems in medicine.
25. Computer Systems in administration.
26. Computer Systems in banking.
27. Representation of numbers.
28. Converting of numbers from binary to decimal number systems.
29. Converting of numbers from hexadecimal to binary number system.
30. Converting of numbers from octal to decimal number systems.
31. Representation of characters.
32. Representation of graphics.
33. Representation of sounds.
34. Software. Overview of Modern Software.
35. The structure of the system software.
36. Introduction of Operating systems.
37. Evolution of OS.
38. Classification of OS.
39. Computer files.
40. File directories and folders.
41. Application software.
42. Desktop application.
43. The field of Human-computer interaction.
44. Human-computer interaction outline.

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Department of "Medical Biophysics and Information Technology"		№ 35-11(И)-2024
Questions of the program for the final control		p.3 out of 4

45. Principles and methodology.
46. Types of user interface.
47. Human-computer interface.
48. Graphic user interface.
49. The database management system.
50. The database management system: definitions and functions, basic architectural solutions.
51. The date model of DB.
52. Overview of database templates and themes.
53. Creating medical database.
54. Using wizard and designer modes to create database.
55. Working with Forms and Reports
56. Using wizard and designer modes to create database form and report.
57. What is data mining?
58. Techniques often used for data mining.
59. Data mining applications as tool for analysis and management.
60. Creating of worksheet. Entering and editing data. Cells formatting. Data sorting.
61. The basic definition of a computer network.
62. An integral part of computer networks.
63. The interaction between the main components of the network.
64. Types of networks.
65. Basic topology.
66. Network cable is the physical transmission medium.
67. Types of cables.
68. Wireless computer networks
69. Protocols for connecting over networks.
70. IP addressing
71. Means for processing demonstration information. Introduction to MS PowerPoint.
72. MS PowerPoint: main functions and capability program for creating report, article, etc.
73. MS PowerPoint: creating, editing presentation.
74. Design and creation of the presentations of lecture material, scientific reports, etc.
75. Creating of presentations, entering text on a slide.
76. Adding of pictures and clip art, adding of hyperlinks, animations and sound effects
77. Internet technology. E-mail.
78. History of the Internet development.
79. Basic Internet concepts.
80. Operating with mails: attach files, send and receive emails.
81. Cloud technology.
82. Essence of cloud technology.
83. History of cloud services.
84. Main definitions and models of cloud computing.
85. General properties of Cloud Computing.
86. Mobile technology.
87. Overview mobile technologies.
88. Brief history of mobile technologies development.
89. Mobile operating systems.
90. Software for mobile devices.

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Questions of the program for the final control		p.4 out of 4

91. Problems and perspectives of mobile technologies.
92. Social aspects of mobile technologies.
93. Threats to information security and their classifications.
94. Industry of cybersecuruty.
95. Security risks of information and their classification.
96. Standards and specifications in information security field.
97. Measures and means of information protection.
98. Antivirus software. Archiving utility.
99. Malware and there classification.
100. Methods of prevention and protection against computer viruses.
101. Archiving utilities and there classification.
102. E-services.
103. E-technology.
104. E-business: basic models of e-business.
105. E-training: architecture, structure and platform.
106. E-government. E-signature.
107. Multimedia technology.
108. The basic concepts of multimedia.
109. Multimedia capabilities.
110. Media terminology.
111. Classification of multimedia.
112. Use of multimedia technologies in medicine.
113. Properties for SMART technology.
114. The concept of "intelligent" city.
115. Artificial intelligence.
116. Green technology ICT.
117. Teleconferences.
118. Telemedicine.
119. Information technology in the professional sphere (medicine, healthcare)
120. Software for solving problems of specialized professional sphere.
121. Modern IT trends in the professional sphere.
122. Security in industrial information and communication technology.
123. Introduction to STATISTICA10.
124. Installation and use of application programs in the professional sphere.
125. Processing of numerical information, creating, and editing formulas STATISTICA10.
126. Setting documents appearance and working with charts in STATISTICA10.
127. Working with charts for presentation medical information in STATISTICA10.
128. Development prospects in the IT sectors in the market: the development of free software.
129. The formation of the IT ecosystem entrepreneurship and support for small startups.
130. Prospects for the development of E-technologies.