

**60610100 - Kompyuter ilmlari va dasturlash texnologiyalari (yo'nalishlar bo'yicha)
bakalavriat ta'lim yo'nalishi**

2-kurs

“Axborot xavfsizligi asoslari” fanidan nazorat savollari ro'yhati

1. Axborotni muhofaza qilish, axborot xavfsizligi va uning zamonaviy konsepsiyasi.
2. Kiber jinoyat tushunchasi, Kiber jinoyat rivojlanish tarixi.
3. Axborot xavfsizligiga tahdidlar.
4. Axborot infratuzilmasini fizik himoyasini ta'minlash.
5. Himoyalangan axborotga tahdidlar tushunchasi va uning tuzilishi.
6. Axborot xavfsizligiga tahdidlarning toifalanishi, Axborot himoyasi vositalarini va usullarini tasniflash.
7. Himoya tizimini ishlab chiqish bosqichlari, Fizik himoya vositalarining asosiy vazifalari.
8. Sodda shifrlash algoritmlari. Misollar keltiring.
9. Steganografiya. Ochiq kalitli shifrlash algoritmlari
10. Identifikatsiya, autentifikatsiya, avtorizatsiya.
11. Elektron tijorat xavfsizligi.
12. Autentifikatsiya tushunchasi. Autentifikatsiya usullari, Avtorizatsiya tushunchasi.
13. Identifikatsiya tushunchasi. Autentifikatsiya tushunchasi. Autentifikatsiya usullari
14. Avtorizatsiya tushunchasi. Elektron tijorat va biznesning muammolari.
15. Kompyuter viruslari va antiviruslar.
16. Kompyuter viruslari va virusdan himoyalaniş muammolari
17. Kompyuter viruslarining bajarilish davri.
18. Virusga qarshi dasturlarning turlari.
19. Virusga qarshi himoya tizimi.
20. Axborot xavfsizligi siyosati tushunchasi, Axborot xavfsizligi siyosati tarkibiy qismlari.
21. RSA ochiq kalitli shifrlash algoritmi.
22. El-Gamal ochiq kalitli shifrlash algoritmi.
23. Kompyuter viruslari va turlari.
24. Mobil tizimlar va ularga taxdidlar
25. Mobil tizimlar xavfsizligini ta'minlash usul va vositalari
26. Axborotlarni muhofaza qilishning texnik vositalari tushunchasi
27. Maskirovkalovchi belgilarning ochilishi tushunchasi
28. Demaskirovka belgilari nimalar bilan farq qiladi?
29. Himoya obyektlarining demaskirovka belgilariga nimalar kiradi?
30. Texnik vositalar bilan himoyalaniş ma'lumotlarning manbalari va tashuvchilari nimalardan iborat?
31. Obyektning demaskirovka belgilari qanday guruhlarga bo'linadi?
32. Nimalar ma'lumot tashuvchi vositalar hisoblanadi?

33. Ma'lumotlar chiqish kanali deb nimaga aytiladi?
34. Ma'lumotlar chiqib ketish kanali qanday guruhlarga ajratiladi?
35. Ma'lumotlar chiqib ketish kanalining paydo bo'lish sabablari va sharoitlari nimalardan iborat?
36. Texnik kanal bo'yicha ma'lumotlar chiqib ketishidan himoyalashda qanday amallar bajarilishi talab etiladi?
37. Ma'lumotlarni vizual-optik kanal bo'yicha chiqib ketishidan himoyalash qanday amalga oshiriladi?
38. Ma'lumot chiqishining qanday elektromagnit kanallari mavjud?
39. Ma'lumotlarni himoyalashning qanday konstruktor-texnologik usullari bor?
40. Tutib olishdan himoyalashning qanday usullar mavjud?
41. Injener-texnik himoya tushunchasi nimani bildiradi?
42. Funktsional vazifasi bo'yicha injener-texnik himoya vositalari qanday guruhlarga ajratiladi?
43. Himoya tizimini ishlab chiqish bosqichlari nimalardan iborat?
44. Fizik himoya vositalarining asosiy vazifalariga nimalar kiradi?
45. Obyekt xavfsizligini ta'minlash tizimlari nimalardan iborat?
46. Kriptografiya
47. Kriptografiya rivojlanishining qanday bosqichlari mavjud?
48. Zamonaviy kriptografiya qanaqa muammolarni hal etuvchi bilim sohasi hisoblanadi?
49. Axborotlarni sodda shifrlashni qanday usullari bor?
50. Sezarning shifrlash usuli qanday amalga oshiriladi?
51. Vijinerning shifrlash tizimi
52. Kalit deganda nima tushuniladi?
53. Simmetrik shifrlash qanday amalga oshiriladi?
54. Asimmetrik shifrlash
55. Simmetrik va asimmetrik kalit yordamida shifrlash qanday amalga oshiriladi?
56. Raqamli sertifikatlar
57. Kriptotomustahkamlik nimani bildiradi?
58. Shifrlashga qanaqa talablar qo'yiladi?
59. Qaysi shifrlash algoritmlari keng tarqalgan?
60. Elektron raqamli imzo nima maqsadda ishlatiladi?
61. KOMPUTER so'zi $K=3$ bo'lganda Sezar usulida shifrlang (ingliz alfavitida).
62. CRYPTOGRAPHY so'zi $K=5$ bo'lganda Sezar usulida shifrlang (ingliz alfavitida).
63. SECURITY so'zi $K=7$ bo'lganda Sezar usulida shifrlang (ingliz alfavitida).
64. AXBOROT so'zi $K=11$ bo'lganda Sezar usulida shifrlang
65. XAVFSIZLIK so'zi $K=13$ bo'lganda Sezar usulida shifrlang
66. KOMPUTERLAR so'zi $K=3$ bo'lganda Sezar usulida shifrlang (ingliz alfavitida).
67. CRYPTOVALYUTA so'zi $K=5$ bo'lganda Sezar usulida shifrlang (ingliz alfavitida).
68. MATEMATIKA so'zi $K=7$ bo'lganda Sezar usulida shifrlang (ingliz alfavitida).

69. FAKULTET so'zi $K=11$ bo'lganda Sezar usulida shifrlang
70. SHIFRLASH so'zi $K=13$ bo'lganda Sezar usulida shifrlang
71. KRIPTOGRAFIYA so'zi $K=11$ bo'lganda Sezar usulida shifrlang
72. Affin tizimi: $a=15, b=17, n=26, C=nfmprnprelfqtiirqtdmhermhhdhprsaardr, M=?$
73. Affin tizimi: $a=21, b=17, n=26, C=svamzozbernredyzerm pzorjrejrer, M=?$
74. Affin tizimi: $a=23, b=18, n=26, C=pkakfxsiqkxfascbqxsqxtgrsltnkvup, M=?$
75. Affin tizimi: $a=9, b=3, n=26, C=zaxwqxvodrxadhdenmnqexfxqdpnpxaedfxhqx, M=?$
76. Affin tizimi: $a=7, b=16, n=26, C=enkjcktgqds luwkc uwnkmnuw, M=?$
77. Affin tizimi: $a=3, b=24, n=26, C=hkbetyuwxbuofhwfybbys, M=?$
78. Affin tizimi: $a=9, b=21, n=26, C=rdpyriifxvkrctjqvsvwriefszvwpix, M=?$
79. Affin tizimi: $a=7, b=13, n=26, C=chjqpcqnmnuhzrtqhexvmncdnihauptcruvhzdra, M=?$
80. Affin tizimi: $a=11, b=4, n=26, C=lwpfeiorvepkw fserwlopqqfqrveiqrfser, M=?$
81. Affin tizimi: $a=9, b=10, n=26, C=uwxokxuxlexeokyeflkok, M=?$
82. Affin tizimi: $a=17, b=12, n=26, C=sgbysrdsyorqyzszkxmkslmgbmfrmymezmimgm, M=?$
83. Affin tizimi: $a=15, b=10, n=26, C=zmtwkxaxaikdsdaxwavmga, M=?$
84. Affin tizimi: $a=15, b=25, n=26, C=mhlzybcnfizulzsbmohuxzspml, M=?$
85. Affin tizimi: $a=7, b=12, n=26, C=hoymnsmzzqsmuwlgcqzchodgbzqzc, M=?$
86. Affin tizimi: $a=9, b=16, n=26, C=mwfkqrqemlsqdukmxeqfkdkmhkfmvkyawkdrq, M=?$
87. Affin tizimi: $a=21, b=25, n=26, C=ihbzjvzpqzifblmohswl bxlwlnqzkl, M=?$
88. Affin tizimi: $a=17, b=20, n=26, C=tklsuphacjuzsafqygcjalyztaq, M=?$
89. Affin tizimi: $a=21, b=8, n=26, C=hqsqfaiwiawmhia, M=?$
90. Affin tizimi: $a=21, b=20, n=26, C=panmuquhqucjlueiuhceg, M=?$
91. Affin tizimi: $a=15, b=13, n=26, C=mpqbtwnixbqdrolnjgdznacpddchvmzna, M=?$
92. Affin tizimi: $a=17, b=17, n=26, C=lgterdrnxgrlgterdrevovjrprm, M=?$
93. Affin tizimi: $a=19, b=5, n=26, C=ftcbyxltpfsylbjfzndqfn, M=?$
94. Affin tizimi: $a=25, b=16, n=26, C=csiegqxxqgqfxqgdicfipawvfqyjkqxwyjni, M=?$
95. Affin tizimi: $a=23, b=10, n=26, C=cepaklfkpuzdmxmkqdkxbmabk, M=?$
96. Affin tizimi: $a=21, b=15, n=26, C=rxfgpvdgbrxmablpxibkvlmbkdpmxhkviabh, M=?$
97. Affin tizimi: $a=9, b=7, n=26, C=ohqbeshwchqdyblubtdzshjhdcibldnshpreihuwfebq, M=?$
98. Affin tizimi: $a=15, b=9, n=26, C=yzekjgijcjwyreztxmyrevjwzhflpixqxhzwzyzeflsjaleltkld, M=?$
99. Affin tizimi: $a=7, b=8, n=26, C=qmhmplyizkxemvdkppiqmxdmolkxmvyiecocvlmqoieioom, M=?$
100. Affin tizimi: $a=25, b=3, n=26, C=azavpvrkdfpnqvnpkds vckdrpr, M=?$
101. Affin tizimi: $a=3, b=14, n=26, C=xareivoxmymujmyxobagoxaqobgml, M=?$
102. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni

oching (deshifrlang) $P=827$, $g=381$, $x=398$, $a=149$,
 $b=\{375,64,133,719,788,375,133,409,375,202,64,375,616,202,375,30,133,375$
 $,409,409,375,202\}$, $M=?$

103. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=571$, $g=7$, $x=233$, $a=433$,
 $b=\{300,446,134,61,300,413,300,267,300,393,227,114,81,559,300,559,539\}$,
 $M=?$
104. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=883$, $g=154$, $x=42$, $a=732$,
 $b=\{116,97,115,110,105,102,105,118,97,105,101,114,97,114,120,105,121,97,$
 $115,105,110,105\}$, $M=?$
105. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=839$, $g=249$, $x=234$, $a=344$,
 $b=\{801,272,81,657,9,344,272,106,272,729,560,394,704,9,729,9,369,9\}$, $M=?$
106. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=421$, $g=65$, $x=327$, $a=14$,
 $b=\{216,380,336,101,74,52,331,101,30,380,74,380,336,216,30,331,79,380,33$
 $6,216\}$, $M=?$
107. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=659$, $g=32$, $x=554$, $a=190$,
 $b=\{319,289,36,106,116,299,309,542,46,289,299,36,269,492,56,309,289,512\}$
 $, M=?$
108. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=727$, $g=23$, $x=627$, $a=512$,
 $b=\{652,17,238,284,606,606,100,201,422,247,468,155,468,201,422,247,468,1$
 $55,468,201,422\}$, $M=?$
109. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=997$, $g=504$, $x=290$, $a=88$,
 $b=\{452,104,626,753,927,372,546,579,104,71,927,673,800,673\}$, $M=?$
110. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=379$, $g=82$, $x=68$, $a=102$,
 $b=\{66,14,238,334,297,46,78,110,51,238,270,327,295,263\}$, $M=?$
111. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=509$, $g=500$, $x=58$, $a=122$,
 $b=\{473,463,9,4,478,478,24,443,498,438,493,448,493,443,498,438,493,448,4$
 $93,443,498,9,24\}$, $M=?$
112. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=577$, $g=494$, $x=144$, $a=406$,
 $b=\{109,117,114,97,107,107,97,98,110,105,110,103\}$, $M=?$
113. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=947$, $g=238$, $x=632$, $a=620$,
 $b=\{219,689,575,219,447,440,568,519,875,49,640\}$, $M=?$
114. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=601$, $g=92$, $x=315$, $a=484$,
 $b=\{306,163,384,163,215,228,163,228,137,72,241,293,150,267,59,280,319,33$

- 2,85,150,59,228,202,163,137, 163}, M=?
115. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=467$, $g=377$, $x=66$, $a=163$,
 $b=\{128,307,398,31,119,222,25,210,116,404,34,31,216,404,304,404,207,404,28,116,222,304,404,207,404,28\}$, M=?
116. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=313$, $g=224$, $x=243$, $a=140$,
 $b=\{310,24,158,301,310,104,310,77,310,292,140,33,113,310,185,310,140,33,131\}$, M=?
117. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=967$, $g=43$, $x=173$, $a=876$,
 $b=\{811,45,878,45,661,45,728,278,195,211,945,728,278,511,728,278,578,961,645,811,578,45,661,278\}$, M=?
118. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=599$, $g=475$, $x=127$, $a=417$,
 $b=\{97,31,133,31,55,49,582,85,61,31,91,67,49,31,91,25,97,31,85,31,91,25\}$, M=?
119. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=547$, $g=237$, $x=471$, $a=293$,
 $b=\{538,439,158,272,325,477,515,6,386,158,196,500,158,44,234,477,272,143\}$, M=?
120. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=547$, $g=349$, $x=473$, $a=344$,
 $b=\{474,292,199,108,18,18,472,475,382,384,291,19,291,475,382,384,291,19,291,475,382,199,472\}$, M=?
121. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=857$, $g=311$, $x=692$, $a=387$,
 $b=\{796,427,201,415,415,677,796,296,534,415,189,677,296,427,201,784\}$, M=?
122. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=587$, $g=139$, $x=68$, $a=556$,
 $b=\{72,91,12,476,72,91,12,274,173,72,558,233,476,416,416,91,113\}$, M=?
123. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=439$, $g=354$, $x=323$, $a=4$,
 $b=\{280,44,56,277,74,289,74,274,265,62,256,62,56,274,62,274,65\}$, M=?
124. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=443$, $g=163$, $x=247$, $a=188$,
 $b=\{102,97,122,111,118,105,121,116,97,115,110,105,102,105,110\}$, M=?
125. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=599$, $g=575$, $x=534$, $a=330$,
 $b=\{493,109,86,109,461,109,525,429,109,429,118,109,429,461,365\}$, M=?
126. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrnı oching (deshifrlang) $P=271$, $g=16$, $x=84$, $a=195$,
 $b=\{21,182,257,38,113,21,257,15,21,61,182,21,240,61,21,188,257,21,15\}$, M=?

127. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=887$, $g=421$, $x=528$, $a=569$,
 $b=\{831,302,595,416,831,766,831,408,831,1,652,717,294,237,831,237,359\}$,
 $M=?$
128. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=509$, $g=476$, $x=37$, $a=285$,
 $b=\{141,447,425,318,211,45,211,82,447,211,329,200,447,200,23,211,248,447,425,211,318,211\}$, $M=?$
129. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=709$, $g=131$, $x=82$, $a=170$,
 $b=\{706,407,474,376,309,572,407,327,407,541,358,278,688,309,541,309,425,309\}$, $M=?$
130. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=659$, $g=390$, $x=244$, $a=88$,
 $b=\{590,583,513,541,632,597,639,541,562,583,632,583,513,590,562,639,506,583,513,590\}$, $M=?$
131. El-Gamal algoritmini tushuntiring va quyidagi parametrlar yordamida shifrni oching (deshifrlang) $P=433$, $g=322$, $x=42$, $a=369$,
 $b=\{331,322,312,333,336,325,328,332,315,322,325,312,316,317,318,328,322,323\}$, $M=?$