

## 2023-2024- VA 2024-2025 O'QUV YILLARI UCHUN HUQUQSHUNOSLIK FANIDAN O'TKAZILGAN TEST SINOVI NATIJALARINI TAQQOSLASH

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**Qisqacha mazmuni.** Ushbu maqolada huquqshunoslik (uzbek (lotin, kirill alifbosida) va rus tili guruhlari uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlari natijalarining klassik test nazariyasi va Rash modeli bilan olingan statistik ko'rsatkichlari taqqoslangan. Bu o'quv yillarida o'tkazilgan bakalavriatga kirish test sinovlarida foydalanilgan test varianlarining o'rtacha qiyinlik darajalari, test topshiriqlarining qiyinlik darajalari, sinaluvchilarning qobiliyat darajalari, o'rtacha qiymat, mediana, moda hamda o'lchashning standart xatoligi haqida xulosalar keltirilgan. Test topshiriqlarining qiyinlik darajalari va qobiliyat darajalarini o'zaro mosligini ko'rsatuvchi Rayt xaritasi va test ma'lumoti chiziqlari o'rganilgan. Huquqshunoslik fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlarida parallel test varianlaridan foydalanganligi va ikkita o'quv yilda ham sinaluvchilarning o'zlashtirishlari deyarli o'zgarmaganligi ko'rsatilgan.

**Kalit so'zlar:** Klassik test nazariyasi, Rash modeli, qiyinlik darajalari, qobiliyat darajalari, Rayt xaritasi.

### 1. Kirish

Dunyo mamlakatlarida bilimlari baholashda eng ko'p qo'llaniladigan pedagogik o'lchov vositalaridan biri test hisoblanadi. Bunda turli xil guruhlardagi sinaluvchilar bilimlarini solishtirish, ularning o'quv dasturini qanday darajada o'zlashtirganligini aniqlash, pedagoglar va ta'lim muassalari faoliyati samaradorligini baholash, shuningdek, ularning yutuq va kamchilliklari haqida ma'lumotlar olish uchun standart testlardan foydalaniladi [1]. Shuning uchun ham sinaluvchilar bilimlarini baholash uchun standart test variantlarini yaratishda test topshiriqlari sifatini aniqlash, aprobat siya test sinovini o'tkazish, test sinovlari natijalarini statistik tahlil asosida ilmiy asoslash va test topshiriqlari tavsiflarini yaxshilash juda muhim hisoblanadi [1]. Bundan tashqari turli xil sinaluvchilar guruhlarining bilimlarini baholashda standartlikni ta'minlash uchun bitta

standart test variantidan [2] yoki parallel test variantlaridan foydalaniladi.

Bitta standart test variantidan foydalanilganda standartlik bo'yicha muammo bo'lmaydi, lekin har xil test variantlaridan foydalanilganda sinaluvchilarga beriladigan variantlarning qiyinlik darajalari bo'yicha savollar yuzaga chiqadi. Parallel test variantlaridan foydalanish bu muommolarni qisman hal qiladi. Bunda qo'llanilayotgan test variantlarining imkon qadar parallelligini ta'minlash uchun test spetsifikatsiyasiga qat'iy rioya qilish talab etiladi [3].

Pedagogik o'lchovlarning nazariy asoslariga ko'ra har bir test bo'yicha tuzilgan test topshiriqlari mazmuni ekspert tekshiruvidan o'tkazilgandan keyingi bosqichda aprobatsiya test sinovlari o'tkaziladi va uning natijalari asosida testlarning xususiyatlari, sifatini tashhishlash uchun ularning statistik xarakteristikalarini aniqlanadi,

Aprobatsiya testlari real testlar to'g'risida xulosalar chiqarish imkonini beradi. Statistik tavsiflar yordamida test topshiriqlariga qo'yilgan asosiy talablarning ko'rsatkichlari aniqlanadi [4].

Ushbu maqolada huquqshunoslik (o'zbek (lotin va kirill alifbosida) va rus tili guruhlar uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlari natijalarining klassik va zamonaviy test nazariyalari bilan tahlili natijasida olingan ma'lumotlar solishtirilgan va o'rganilgan. Bu orqali ikkita o'quv yilida o'tkazilgan test sinovlarida foydalanilgan test variantlarining qiyinlik darajalari, o'rtacha qiymati, mediana, moda, o'lchashning standart xatoligi va sinaluvchilarning qobiliyat darajalari haqida xulosalar keltirilgan. Test topshiriqlarining qiyinlik darajalari va qobiliyat darajalarini o'zaro mosligini ko'rsatuvchi Rayt xaritasi va test ma'lumoti chiziqlari o'rganilgan.

## 2. Natijalar va muhokamalar

Huquqshunoslik (o'zbek (lotin va kirill alifbosida) va rus tili guruhlar uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlarining natijalari klassik va zamonaviy test nazariyalari bilan tahlil qilindi. Olingan ma'lumotlar orqali ushbu o'quv yillarida talabgorlarning qobiliyat darajalari, test

variantining o'rtacha qiyinlik darajalari, o'rtacha qiymati, mediana, moda, o'lchashning standart xatoligi aniqlandi.

1-jadvalda huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlari natijalarining klassik test nazariyasi bilan tahlil qilingan o'rtacha

qiymati, mediana, moda, o'lchashning standart xatoligi kabi qiymatlar solishtirilgan. Jadvaldan ikkita o'quv yilida foydalanilgan test variantlari asosida olingan natijalarining yuqorida sanab o'tilgan kattaliklari deyarli bir-biriga yaqin ekanligini ko'rish mumkin.

Test topshiriqlari sinaluvchilar tomonidan o'zlashtirilishi lozim bo'lgan o'quv dasturlaridan olingan mavzular bo'yicha tuzulganligini hisobga olganda, o'rtacha qiymat taxminan 15 ball ekanligi yaxshi ko'rsatkich hisoblanadi, chunki odatda o'rtacha qiymat test

variantidagi test topshiriqlari 30 ta bo'lganda, 15 ball atrofida bo'lishi maqsadga muvofiq. Shunda bilimlari har xil darajada bo'lgan sinaluvchilar taqsimoti qanchalik normalligi haqida xulosa qilish mumkin bo'ladi.

Jadvaldan faqatgina 2024-yil, 1-smenada foydalanilgan test variantlari asosida olingan natijalarning o'rtacha qiymatlari va medianasi qiymatlari 2023-yilga nisbatan biroz past ekanligini ko'rish mumkin. Lekin, xatolik doirasida ular bir-biriga juda yaqin.

### 1-jadval

Huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlari natijalari haqida statistik ma'lumotlar

| Kun | Sme<br>na | Vari<br>ant | O'rta<br>cha<br>qiymat<br>(2024) | O'rta<br>cha<br>qiymat<br>(2023) | Medi<br>ana<br>(2024) | Medi<br>ana<br>(2023) | Moda<br>(2024) | Moda<br>(2023) | O'sx<br>(2024) | O'sx<br>(2023) |
|-----|-----------|-------------|----------------------------------|----------------------------------|-----------------------|-----------------------|----------------|----------------|----------------|----------------|
| 1   | 1         | 1           | 13,56                            | 16,07                            | 13,00                 | 15,00                 | 10             | 11             | 2,46           | 2,36           |
|     |           | 2           | 13,52                            | 18,01                            | 13,00                 | 17,00                 | 9              | 15             | 2,42           | 2,34           |
|     |           | 3           | 12,91                            | 15,95                            | 12,00                 | 15,00                 | 13             | 13             | 2,48           | 2,39           |
|     | 2         | 1           | 16,28                            | 15,46                            | 15,00                 | 14,00                 | 12             | 15             | 2,42           | 2,43           |
|     |           | 2           | 15,65                            | 16,75                            | 15,00                 | 16,00                 | 10             | 14             | 2,41           | 2,42           |
|     |           | 3           | 15,08                            | 15,32                            | 14,00                 | 14,00                 | 12             | 12             | 2,43           | 2,35           |

2-jadvalda huquqshunoslik (o'zbek tili (kirill alifbosida) fanidan 2023-2024 va 2024-2025 - o'quv yillarida

bakalavriatga kirish test sinovlarining natijalaridan klassik test nazariyasi bilan aniqlangan o'rtacha qiymati,

mediana, moda, o'lchashning standart xatoligi kabi qiymatlar solishtirilgan. Bunda 2024-2025- o'quv yilidagi qiymatlar 2023-2024 -o'quv yiliga nisbatan biroz pasayganligini ko'rishimiz mumkin. 2024-2025- o'quv yilida imtihon topshirgan sinaluvchilarning bilim va tayyorgarlik darajalari nisbatan pastroq ekanligi haqida xulosa qilish mumkin. 1- va 2-jadvallarni taqqoslaganda, huquqshunoslik o'zbek tili lotin guruhlari uchun o'rtacha qiymat 2023-2024 va 2024-2025 - o'quv yillari uchun ham deyarli o'zgarmayotganligini, lekin kirill guruhlari nisbatan qiymati kattaroq

ekanligini hamda sinaluvchilarning bilim va tayyorgarlik darajalari nisbatan yaxshiroq ekanligini ko'rish mumkin.

3-jadvalda huquqshunoslik (rus tili guruhlari uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlari natijalaridan aniqlangan o'rtacha qiymati, mediana, moda va o'lchashning standart xatoligi kabi qiymatlari solishtirilgan. 1-3-jadvallardan test sinovlarida foydalanilgan variantlarining tahlil natijalari bir-biriga yaqinligidan ularning paralleligi imkon qadar ta'minlanganligini ko'rish mumkin.

## 2-jadval

Huquqshunoslik (o'zbek tili (kirill alifbosida) guruhlari uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlari natijalari haqida statistik ma'lumotlar

| Kun | Sme<br>na | Vari<br>ant | O'rta<br>cha<br>qiymat<br>(2024) | O'rta<br>cha<br>qiymat<br>(2023) | Medi<br>ana<br>(2024) | Medi<br>ana<br>(2023) | Moda<br>(2024) | Moda<br>(2023) | O'sx<br>(2024) | O'sx<br>(2023) |
|-----|-----------|-------------|----------------------------------|----------------------------------|-----------------------|-----------------------|----------------|----------------|----------------|----------------|
| 1   | 1         | 1           | 11,62                            | 13,02                            | 11,00                 | 13,00                 | 12             | 14             | 2,42           | 2,44           |
|     |           | 2           | 11,49                            | 15,32                            | 11,00                 | 15,00                 | 9              | 15             | 2,40           | 2,46           |
|     |           | 3           | 11,31                            | 13,27                            | 11,00                 | 13,00                 | 11             | 12             | 2,45           | 2,48           |

## 3-jadval

Huquqshunoslik (rus tili guruhlari uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlari natijalari haqida statistik ma'lumotlar

| Kun | Sme<br>na | Vari<br>ant | O'rta<br>cha<br>qiymat<br>(2024) | O'rta<br>cha<br>qiymat<br>(2023) | Medi<br>ana<br>(2024) | Medi<br>ana<br>(2023) | Moda<br>(2024) | Moda<br>(2023) | O'sx<br>(2024) | O'sx<br>(2023) |
|-----|-----------|-------------|----------------------------------|----------------------------------|-----------------------|-----------------------|----------------|----------------|----------------|----------------|
| 1   | 1         | 1           | 14,42                            | 15,72                            | 13,00                 | 15,00                 | 11             | 11             | 2,48           | 2,37           |
|     |           | 2           | 13,44                            | 16,20                            | 12,00                 | 15,00                 | 10             | 13             | 2,42           | 2,42           |
|     |           | 3           | 13,04                            | 14,76                            | 12,00                 | 14,00                 | 11             | 8              | 2,46           | 2,43           |

Huquqshunoslik o'zbek (lotin va kirill alifbosida) va rus tillari bo'yicha guruhlar uchun o'rtacha qiymatlarning taxminan 15 ball ekanligi aksariyat sinaluvchilarning tayyorgarlik darajalari yaxshiligini ko'rsatadi.

Statistik ko'rsatkichlar yaxshi bo'lishi uchun, test topshiriqlari sinaluvchilarning qobiliyati bo'yicha ajrata olishi, test topshiriqlari sonidan tashqari o'zlashtirish darajasi yuqori bo'lgan sinaluvchilar soni ham yetarli darajada ko'p bo'lishi kerakligini ta'kidlab o'tish lozim. Tayyorgarlik darajasi past bo'lgan sinaluvchilarning ko'pligi ularning qobilyat bo'yicha yaxshi ajralmasligiga va buning natijasida statistik ko'rsatkichlarni tushib ketishiga olib keladi. Milliy sertifikat bo'yicha test sinovlarida tayyorgarlik darajasi yuqori bo'lgan sinaluvchilar ko'p bo'lishini va aksincha o'zlashtirish past bo'lgan sinaluvchilar juda kam miqdorda bo'lishi hisobiga statistik ko'rsatkichlar yuqori bo'lishini test sinovlari natijalarining tahliliga doir maqolalarimizda ko'rish mumkin [4,5].

Yuqorida ta'kidlab o'tilganidek, bilimlarni baholashda turli xil test variantlari ishlatilganda ularning qiyinlik darajalari ham imkon qadar bir xil bo'lishi talab etiladi. Huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlarida foydalanilgan test variantlari va test topshiriqlarining zamonaviy test nazariyalariga asosan hisoblangan o'rtacha qiyinlik va qiyinlik darajalari 4-5-jadvallarda keltirilgan.

4-jadvaldan test sinovlarida foydalanilgan variantlarning Rash modeli bo'yicha hisoblangan o'rtacha qiyinlik darajalari bir-biriga yaqin ekanligini ko'rish mumkin. Bu o'z navbatida turli xil guruhlariga qiyinlik darajalari bir-biriga yaqin bo'lgan test variantlaridan ya'ni parallel testlardan foydalanilganligini bildiradi. Bundan tashqari ikkita o'quv yili uchun ham foydalanilgan test variantlarining o'rtacha qiyinlik darajalari ham deyarli bir xil, ya'ni bir-biridan unchalik ko'p

farq qilmaydi. Bundan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlarida tayyorgarligi yuqori bo'lgan sinaluvchilarning o'zgarmaganligini xulosa qilish mumkin.

#### 4-jadval

Huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlaridagi test variantlarining zamonaviy test nazariyasi asosida hisoblangan o'rtacha qiyinlik darajalari

| Kun | Smena | Variant | O'rtacha qiyinlik darajasi (2023) | O'rtacha qiyinlik darajasi (2024) |
|-----|-------|---------|-----------------------------------|-----------------------------------|
| 1   | 1     | 1       | -0,23                             | 0,22                              |
|     |       | 2       | -0,58                             | 0,24                              |
|     |       | 3       | -0,20                             | 0,32                              |
| 1   | 2     | 1       | -0,11                             | -0,26                             |
|     |       | 2       | -0,34                             | -0,13                             |
|     |       | 3       | -0,10                             | -0,05                             |

#### 5-jadval

Huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlarida foydalanilgan

test variantlaridagi test topshiriqlarining zamonaviy test nazarisi asosida  
hisoblangan qiyinlik darajalari

| Test<br>topshiriqlari<br>tartib raqami | Kun | Smena | Variant | Qiyinlik<br>darajasi<br>(2023) | Qiyinlik<br>darajasi<br>(2024) |
|--|-----|-------|---------|--------------------------------|--------------------------------|
| 1                                      | 1   | 1     | 1       | -2,073                         | -1,395                         |
| 2                                      | 1   | 1     | 1       | -2,063                         | -0,795                         |
| 3                                      | 1   | 1     | 1       | -1,310                         | -0,727                         |
| 4                                      | 1   | 1     | 1       | -1,082                         | -0,626                         |
| 5                                      | 1   | 1     | 1       | -0,980                         | -0,624                         |
| 6                                      | 1   | 1     | 1       | -0,977                         | -0,593                         |
| 7                                      | 1   | 1     | 1       | -0,890                         | -0,505                         |
| 8                                      | 1   | 1     | 1       | -0,850                         | -0,225                         |
| 9                                      | 1   | 1     | 1       | -0,849                         | -0,102                         |
| 10                                     | 1   | 1     | 1       | -0,591                         | -0,056                         |
| 11                                     | 1   | 1     | 1       | -0,420                         | -0,045                         |
| 12                                     | 1   | 1     | 1       | -0,322                         | 0,036                          |
| 13                                     | 1   | 1     | 1       | -0,320                         | 0,127                          |
| 14                                     | 1   | 1     | 1       | -0,296                         | 0,156                          |
| 15                                     | 1   | 1     | 1       | -0,246                         | 0,234                          |
| 16                                     | 1   | 1     | 1       | -0,005                         | 0,310                          |
| 17                                     | 1   | 1     | 1       | 0,002                          | 0,328                          |
| 18                                     | 1   | 1     | 1       | 0,009                          | 0,595                          |
| 19                                     | 1   | 1     | 1       | 0,123                          | 0,604                          |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 20                               | 1   | 1     | 1       | 0,244                    | 0,701                    |
| 21                               | 1   | 1     | 1       | 0,256                    | 0,713                    |
| 22                               | 1   | 1     | 1       | 0,327                    | 0,787                    |
| 23                               | 1   | 1     | 1       | 0,355                    | 0,800                    |
| 24                               | 1   | 1     | 1       | 0,411                    | 0,878                    |
| 25                               | 1   | 1     | 1       | 0,417                    | 0,925                    |
| 26                               | 1   | 1     | 1       | 0,636                    | 0,932                    |
| 27                               | 1   | 1     | 1       | 0,677                    | 0,956                    |
| 28                               | 1   | 1     | 1       | 0,923                    | 0,969                    |
| 29                               | 1   | 1     | 1       | 0,939                    | 1,049                    |
| 30                               | 1   | 1     | 1       | 0,961                    | 1,123                    |
| 1                                | 1   | 1     | 2       | -2,344                   | -1,401                   |
| 2                                | 1   | 1     | 2       | -2,254                   | -1,025                   |
| 3                                | 1   | 1     | 2       | -1,559                   | -1,008                   |
| 4                                | 1   | 1     | 2       | -1,510                   | -0,921                   |
| 5                                | 1   | 1     | 2       | -1,427                   | -0,820                   |
| 6                                | 1   | 1     | 2       | -1,387                   | -0,578                   |
| 7                                | 1   | 1     | 2       | -1,285                   | -0,575                   |
| 8                                | 1   | 1     | 2       | -1,136                   | -0,226                   |
| 9                                | 1   | 1     | 2       | -1,031                   | -0,076                   |
| 10                               | 1   | 1     | 2       | -0,968                   | -0,008                   |



| Test<br>topshiriqlari<br>tartib raqami | Kun | Smena | Variant | Qiyinlik<br>darajasi<br>(2023) | Qiyinlik<br>darajasi<br>(2024) |
|--|-----|-------|---------|--------------------------------|--------------------------------|
| 11                                     | 1   | 1     | 2       | -0,885                         | 0,020                          |
| 12                                     | 1   | 1     | 2       | -0,619                         | 0,034                          |
| 13                                     | 1   | 1     | 2       | -0,597                         | 0,040                          |
| 14                                     | 1   | 1     | 2       | -0,588                         | 0,168                          |
| 15                                     | 1   | 1     | 2       | -0,526                         | 0,311                          |
| 16                                     | 1   | 1     | 2       | -0,465                         | 0,331                          |
| 17                                     | 1   | 1     | 2       | -0,329                         | 0,346                          |
| 18                                     | 1   | 1     | 2       | -0,263                         | 0,460                          |
| 19                                     | 1   | 1     | 2       | -0,135                         | 0,472                          |
| 20                                     | 1   | 1     | 2       | -0,082                         | 0,556                          |
| 21                                     | 1   | 1     | 2       | -0,050                         | 0,589                          |
| 22                                     | 1   | 1     | 2       | -0,033                         | 0,625                          |
| 23                                     | 1   | 1     | 2       | -0,001                         | 0,656                          |
| 24                                     | 1   | 1     | 2       | 0,067                          | 0,963                          |
| 25                                     | 1   | 1     | 2       | 0,091                          | 1,082                          |
| 26                                     | 1   | 1     | 2       | 0,212                          | 1,114                          |
| 27                                     | 1   | 1     | 2       | 0,377                          | 1,207                          |
| 28                                     | 1   | 1     | 2       | 0,419                          | 1,346                          |
| 29                                     | 1   | 1     | 2       | 0,453                          | 1,668                          |
| 30                                     | 1   | 1     | 2       | 0,567                          | 1,827                          |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 1                                | 1   | 1     | 3       | -2,137                   | -2,085                   |
| 2                                | 1   | 1     | 3       | -1,701                   | -0,868                   |
| 3                                | 1   | 1     | 3       | -1,375                   | -0,527                   |
| 4                                | 1   | 1     | 3       | -0,934                   | -0,467                   |
| 5                                | 1   | 1     | 3       | -0,834                   | -0,390                   |
| 6                                | 1   | 1     | 3       | -0,823                   | -0,248                   |
| 7                                | 1   | 1     | 3       | -0,784                   | -0,167                   |
| 8                                | 1   | 1     | 3       | -0,656                   | -0,090                   |
| 9                                | 1   | 1     | 3       | -0,616                   | 0,056                    |
| 10                               | 1   | 1     | 3       | -0,510                   | 0,142                    |
| 11                               | 1   | 1     | 3       | -0,468                   | 0,151                    |
| 12                               | 1   | 1     | 3       | -0,377                   | 0,187                    |
| 13                               | 1   | 1     | 3       | -0,221                   | 0,276                    |
| 14                               | 1   | 1     | 3       | -0,140                   | 0,302                    |
| 15                               | 1   | 1     | 3       | -0,123                   | 0,389                    |
| 16                               | 1   | 1     | 3       | -0,086                   | 0,415                    |
| 17                               | 1   | 1     | 3       | -0,084                   | 0,458                    |
| 18                               | 1   | 1     | 3       | -0,049                   | 0,540                    |
| 19                               | 1   | 1     | 3       | -0,035                   | 0,543                    |
| 20                               | 1   | 1     | 3       | 0,008                    | 0,549                    |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 21                               | 1   | 1     | 3       | 0,049                    | 0,689                    |
| 22                               | 1   | 1     | 3       | 0,165                    | 0,710                    |
| 23                               | 1   | 1     | 3       | 0,281                    | 0,765                    |
| 24                               | 1   | 1     | 3       | 0,348                    | 0,966                    |
| 25                               | 1   | 1     | 3       | 0,416                    | 0,996                    |
| 26                               | 1   | 1     | 3       | 0,418                    | 1,060                    |
| 27                               | 1   | 1     | 3       | 0,475                    | 1,140                    |
| 28                               | 1   | 1     | 3       | 0,925                    | 1,262                    |
| 29                               | 1   | 1     | 3       | 1,405                    | 1,273                    |
| 30                               | 1   | 1     | 3       | 1,519                    | 1,463                    |
| 1                                | 1   | 2     | 1       | -1,913                   | -3,331                   |
| 2                                | 1   | 2     | 1       | -1,413                   | -1,039                   |
| 3                                | 1   | 2     | 1       | -1,003                   | -0,871                   |
| 4                                | 1   | 2     | 1       | -0,970                   | -0,791                   |
| 5                                | 1   | 2     | 1       | -0,956                   | -0,785                   |
| 6                                | 1   | 2     | 1       | -0,845                   | -0,657                   |
| 7                                | 1   | 2     | 1       | -0,694                   | -0,649                   |
| 8                                | 1   | 2     | 1       | -0,688                   | -0,593                   |
| 9                                | 1   | 2     | 1       | -0,645                   | -0,410                   |
| 10                               | 1   | 2     | 1       | -0,644                   | -0,368                   |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 11                               | 1   | 2     | 1       | -0,553                   | -0,354                   |
| 12                               | 1   | 2     | 1       | -0,319                   | -0,328                   |
| 13                               | 1   | 2     | 1       | -0,107                   | -0,299                   |
| 14                               | 1   | 2     | 1       | -0,019                   | -0,237                   |
| 15                               | 1   | 2     | 1       | 0,052                    | -0,200                   |
| 16                               | 1   | 2     | 1       | 0,064                    | -0,136                   |
| 17                               | 1   | 2     | 1       | 0,123                    | -0,129                   |
| 18                               | 1   | 2     | 1       | 0,141                    | -0,056                   |
| 19                               | 1   | 2     | 1       | 0,153                    | -0,051                   |
| 20                               | 1   | 2     | 1       | 0,225                    | -0,039                   |
| 21                               | 1   | 2     | 1       | 0,285                    | -0,032                   |
| 22                               | 1   | 2     | 1       | 0,352                    | -0,028                   |
| 23                               | 1   | 2     | 1       | 0,394                    | 0,046                    |
| 24                               | 1   | 2     | 1       | 0,462                    | 0,055                    |
| 25                               | 1   | 2     | 1       | 0,494                    | 0,118                    |
| 26                               | 1   | 2     | 1       | 0,607                    | 0,147                    |
| 27                               | 1   | 2     | 1       | 0,711                    | 0,328                    |
| 28                               | 1   | 2     | 1       | 0,731                    | 0,479                    |
| 29                               | 1   | 2     | 1       | 1,205                    | 0,799                    |
| 30                               | 1   | 2     | 1       | 1,568                    | 1,494                    |

| Test<br>topshiriqlari<br>tartib raqami | Kun | Smena | Variant | Qiyinlik<br>darajasi<br>(2023) | Qiyinlik<br>darajasi<br>(2024) |
|--|-----|-------|---------|--------------------------------|--------------------------------|
| 1                                      | 1   | 2     | 2       | -1,962                         | -1,702                         |
| 2                                      | 1   | 2     | 2       | -1,924                         | -1,250                         |
| 3                                      | 1   | 2     | 2       | -1,615                         | -0,904                         |
| 4                                      | 1   | 2     | 2       | -1,607                         | -0,762                         |
| 5                                      | 1   | 2     | 2       | -1,354                         | -0,612                         |
| 6                                      | 1   | 2     | 2       | -1,157                         | -0,583                         |
| 7                                      | 1   | 2     | 2       | -1,060                         | -0,567                         |
| 8                                      | 1   | 2     | 2       | -0,786                         | -0,532                         |
| 9                                      | 1   | 2     | 2       | -0,774                         | -0,481                         |
| 10                                     | 1   | 2     | 2       | -0,499                         | -0,421                         |
| 11                                     | 1   | 2     | 2       | -0,477                         | -0,358                         |
| 12                                     | 1   | 2     | 2       | -0,300                         | -0,326                         |
| 13                                     | 1   | 2     | 2       | -0,289                         | -0,227                         |
| 14                                     | 1   | 2     | 2       | -0,071                         | -0,220                         |
| 15                                     | 1   | 2     | 2       | -0,038                         | -0,152                         |
| 16                                     | 1   | 2     | 2       | 0,011                          | -0,118                         |
| 17                                     | 1   | 2     | 2       | 0,011                          | -0,032                         |
| 18                                     | 1   | 2     | 2       | 0,016                          | 0,007                          |
| 19                                     | 1   | 2     | 2       | 0,017                          | 0,020                          |
| 20                                     | 1   | 2     | 2       | 0,082                          | 0,021                          |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 21                               | 1   | 2     | 2       | 0,087                    | 0,157                    |
| 22                               | 1   | 2     | 2       | 0,148                    | 0,223                    |
| 23                               | 1   | 2     | 2       | 0,148                    | 0,239                    |
| 24                               | 1   | 2     | 2       | 0,269                    | 0,254                    |
| 25                               | 1   | 2     | 2       | 0,342                    | 0,308                    |
| 26                               | 1   | 2     | 2       | 0,347                    | 0,364                    |
| 27                               | 1   | 2     | 2       | 0,359                    | 0,465                    |
| 28                               | 1   | 2     | 2       | 0,599                    | 0,771                    |
| 29                               | 1   | 2     | 2       | 0,646                    | 0,798                    |
| 30                               | 1   | 2     | 2       | 0,742                    | 1,638                    |
| 1                                | 1   | 2     | 3       | -1,992                   | -2,898                   |
| 2                                | 1   | 2     | 3       | -1,685                   | -1,564                   |
| 3                                | 1   | 2     | 3       | -1,522                   | -0,902                   |
| 4                                | 1   | 2     | 3       | -1,401                   | -0,777                   |
| 5                                | 1   | 2     | 3       | -1,132                   | -0,776                   |
| 6                                | 1   | 2     | 3       | -1,005                   | -0,654                   |
| 7                                | 1   | 2     | 3       | -0,576                   | -0,387                   |
| 8                                | 1   | 2     | 3       | -0,551                   | -0,359                   |
| 9                                | 1   | 2     | 3       | -0,425                   | -0,251                   |
| 10                               | 1   | 2     | 3       | -0,394                   | -0,244                   |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 11                               | 1   | 2     | 3       | -0,344                   | -0,228                   |
| 12                               | 1   | 2     | 3       | -0,319                   | -0,188                   |
| 13                               | 1   | 2     | 3       | -0,307                   | -0,151                   |
| 14                               | 1   | 2     | 3       | -0,258                   | -0,136                   |
| 15                               | 1   | 2     | 3       | -0,182                   | -0,131                   |
| 16                               | 1   | 2     | 3       | -0,139                   | -0,111                   |
| 17                               | 1   | 2     | 3       | -0,064                   | -0,083                   |
| 18                               | 1   | 2     | 3       | 0,047                    | -0,069                   |
| 19                               | 1   | 2     | 3       | 0,167                    | 0,159                    |
| 20                               | 1   | 2     | 3       | 0,294                    | 0,215                    |
| 21                               | 1   | 2     | 3       | 0,436                    | 0,226                    |
| 22                               | 1   | 2     | 3       | 0,456                    | 0,241                    |
| 23                               | 1   | 2     | 3       | 0,469                    | 0,302                    |
| 24                               | 1   | 2     | 3       | 0,476                    | 0,390                    |
| 25                               | 1   | 2     | 3       | 0,747                    | 0,770                    |
| 26                               | 1   | 2     | 3       | 0,796                    | 0,879                    |
| 27                               | 1   | 2     | 3       | 1,044                    | 1,247                    |
| 28                               | 1   | 2     | 3       | 1,282                    | 1,260                    |
| 29                               | 1   | 2     | 3       | 1,488                    | 1,402                    |
| 30                               | 1   | 2     | 3       | 1,683                    | 1,505                    |

6-7-jadvallarda huquqshunoslik (o'zbek tili (kirill alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillarida bakalavriatga kirish test sinovlarida foydalanilgan test variantlari va test topshiriqlarining zamonaviy test nazariyasi asosida hisoblangan o'rtacha qiyinlik va qiyinlik darajalari keltirilgan. 6 - jadvaldan 2024-2025 -

o'quv yil test sinovida foydalanilgan test variantlarining o'rtacha qiyinlik darajalari o'tgan o'quv yilgiga nisbatan biroz kattaroq ekanligini ko'rish mumkin, Buni 1-jadvaldagi tahlil natijalaridan olingan o'rtacha qiymatning kamayganligi, yani sinaluvchilarning tayyorgarlik darajalarining pasayganligi bilan ham tushuntirish mumkin.

#### 6-jadval

Huquqshunoslik (o'zbek tili (kirill alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlaridagi test variantlarining zamonaviy test nazariyasi asosida hisoblangan o'rtacha qiyinlik darajalari

| Kun | Smena | Variant | O'rtacha qiyinlik darajasi (2023) | O'rtacha qiyinlik darajasi (2024) |
|-----|-------|---------|-----------------------------------|-----------------------------------|
| 1   | 1     | 1       | 0,31                              | 0,56                              |
|     |       | 2       | -0,06                             | 0,60                              |
|     |       | 3       | 0,30                              | 0,60                              |

#### 7-jadval

Huquqshunoslik (o'zbek tili (kirill alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlaridagi test topshiriqlarining zamonaviy test nazariyasi asosida hisoblangan qiyinlik darajalari



| Test<br>topshiriqlari<br>tartib raqami | Kun | Smena | Variant | Qiyinlik<br>darajasi<br>(2023) | Qiyinlik<br>darajasi<br>(2024) |
|--|-----|-------|---------|--------------------------------|--------------------------------|
| 1                                      | 1   | 1     | 1       | -2,055                         | -1,400                         |
| 2                                      | 1   | 1     | 1       | -1,780                         | -0,930                         |
| 3                                      | 1   | 1     | 1       | -1,026                         | -0,749                         |
| 4                                      | 1   | 1     | 1       | -0,927                         | -0,698                         |
| 5                                      | 1   | 1     | 1       | -0,648                         | -0,674                         |
| 6                                      | 1   | 1     | 1       | -0,451                         | -0,575                         |
| 7                                      | 1   | 1     | 1       | -0,419                         | -0,503                         |
| 8                                      | 1   | 1     | 1       | -0,260                         | -0,408                         |
| 9                                      | 1   | 1     | 1       | -0,186                         | -0,015                         |
| 10                                     | 1   | 1     | 1       | -0,166                         | 0,214                          |
| 11                                     | 1   | 1     | 1       | 0,073                          | 0,542                          |
| 12                                     | 1   | 1     | 1       | 0,136                          | 0,567                          |
| 13                                     | 1   | 1     | 1       | 0,209                          | 0,615                          |
| 14                                     | 1   | 1     | 1       | 0,304                          | 0,615                          |
| 15                                     | 1   | 1     | 1       | 0,325                          | 0,665                          |
| 16                                     | 1   | 1     | 1       | 0,367                          | 0,791                          |
| 17                                     | 1   | 1     | 1       | 0,496                          | 0,896                          |
| 18                                     | 1   | 1     | 1       | 0,562                          | 0,950                          |
| 19                                     | 1   | 1     | 1       | 0,908                          | 1,005                          |
| 20                                     | 1   | 1     | 1       | 0,944                          | 1,033                          |
| 21                                     | 1   | 1     | 1       | 1,006                          | 1,118                          |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 22                               | 1   | 1     | 1       | 1,057                    | 1,207                    |
| 23                               | 1   | 1     | 1       | 1,122                    | 1,237                    |
| 24                               | 1   | 1     | 1       | 1,135                    | 1,237                    |
| 25                               | 1   | 1     | 1       | 1,161                    | 1,299                    |
| 26                               | 1   | 1     | 1       | 1,202                    | 1,428                    |
| 27                               | 1   | 1     | 1       | 1,299                    | 1,462                    |
| 28                               | 1   | 1     | 1       | 1,603                    | 1,925                    |
| 29                               | 1   | 1     | 1       | 1,620                    | 2,016                    |
| 30                               | 1   | 1     | 1       | 1,670                    | 2,017                    |
| 1                                | 1   | 1     | 2       | -1,978                   | -1,253                   |
| 2                                | 1   | 1     | 2       | -1,450                   | -1,112                   |
| 3                                | 1   | 1     | 2       | -1,434                   | -1,057                   |
| 4                                | 1   | 1     | 2       | -1,403                   | -0,876                   |
| 5                                | 1   | 1     | 2       | -1,073                   | -0,402                   |
| 6                                | 1   | 1     | 2       | -1,046                   | -0,357                   |
| 7                                | 1   | 1     | 2       | -0,780                   | -0,223                   |
| 8                                | 1   | 1     | 2       | -0,732                   | -0,136                   |
| 9                                | 1   | 1     | 2       | -0,708                   | -0,005                   |
| 10                               | 1   | 1     | 2       | -0,708                   | 0,017                    |
| 11                               | 1   | 1     | 2       | -0,696                   | 0,061                    |
| 12                               | 1   | 1     | 2       | -0,442                   | 0,530                    |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 13                               | 1   | 1     | 2       | -0,286                   | 0,600                    |
| 14                               | 1   | 1     | 2       | -0,220                   | 0,623                    |
| 15                               | 1   | 1     | 2       | -0,209                   | 0,767                    |
| 16                               | 1   | 1     | 2       | 0,053                    | 0,791                    |
| 17                               | 1   | 1     | 2       | 0,151                    | 0,791                    |
| 18                               | 1   | 1     | 2       | 0,194                    | 0,841                    |
| 19                               | 1   | 1     | 2       | 0,495                    | 0,892                    |
| 20                               | 1   | 1     | 2       | 0,599                    | 1,103                    |
| 21                               | 1   | 1     | 2       | 0,599                    | 1,130                    |
| 22                               | 1   | 1     | 2       | 0,622                    | 1,244                    |
| 23                               | 1   | 1     | 2       | 0,693                    | 1,304                    |
| 24                               | 1   | 1     | 2       | 0,717                    | 1,334                    |
| 25                               | 1   | 1     | 2       | 0,790                    | 1,334                    |
| 26                               | 1   | 1     | 2       | 1,166                    | 1,665                    |
| 27                               | 1   | 1     | 2       | 1,223                    | 1,856                    |
| 28                               | 1   | 1     | 2       | 1,280                    | 1,897                    |
| 29                               | 1   | 1     | 2       | 1,325                    | 1,939                    |
| 30                               | 1   | 1     | 2       | 1,401                    | 2,959                    |
| 1                                | 1   | 1     | 3       | -1,379                   | -2,159                   |
| 2                                | 1   | 1     | 3       | -1,364                   | -0,820                   |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 3                                | 1   | 1     | 3       | -1,334                   | -0,522                   |
| 4                                | 1   | 1     | 3       | -1,274                   | -0,357                   |
| 5                                | 1   | 1     | 3       | -0,808                   | -0,287                   |
| 6                                | 1   | 1     | 3       | -0,547                   | 0,124                    |
| 7                                | 1   | 1     | 3       | -0,412                   | 0,192                    |
| 8                                | 1   | 1     | 3       | -0,170                   | 0,216                    |
| 9                                | 1   | 1     | 3       | -0,115                   | 0,331                    |
| 10                               | 1   | 1     | 3       | 0,068                    | 0,354                    |
| 11                               | 1   | 1     | 3       | 0,123                    | 0,354                    |
| 12                               | 1   | 1     | 3       | 0,188                    | 0,378                    |
| 13                               | 1   | 1     | 3       | 0,199                    | 0,520                    |
| 14                               | 1   | 1     | 3       | 0,242                    | 0,568                    |
| 15                               | 1   | 1     | 3       | 0,253                    | 0,592                    |
| 16                               | 1   | 1     | 3       | 0,297                    | 0,641                    |
| 17                               | 1   | 1     | 3       | 0,352                    | 0,715                    |
| 18                               | 1   | 1     | 3       | 0,385                    | 0,715                    |
| 19                               | 1   | 1     | 3       | 0,397                    | 0,740                    |
| 20                               | 1   | 1     | 3       | 0,509                    | 0,843                    |
| 21                               | 1   | 1     | 3       | 0,659                    | 0,869                    |
| 22                               | 1   | 1     | 3       | 0,826                    | 1,031                    |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 23                               | 1   | 1     | 3       | 0,964                    | 1,145                    |
| 24                               | 1   | 1     | 3       | 1,043                    | 1,145                    |
| 25                               | 1   | 1     | 3       | 1,069                    | 1,234                    |
| 26                               | 1   | 1     | 3       | 1,279                    | 1,633                    |
| 27                               | 1   | 1     | 3       | 1,338                    | 1,748                    |
| 28                               | 1   | 1     | 3       | 1,738                    | 1,748                    |
| 29                               | 1   | 1     | 3       | 1,875                    | 1,961                    |
| 30                               | 1   | 1     | 3       | 2,597                    | 2,318                    |

8-jadvalda huquqshunoslik (rus tili guruhlari uchun) fanidan 2023-2024 va 2024-2025 - o'quv yillaridagi test sinovlarida foydalanilgan test variantlari va test topshiriqlarining zamonaviy test nazariyasi asosida hisoblangan o'rtacha qiyinlik va qiyinlik darajalari keltirilgan. Umumiy holda 4-8-jadvallardan variantlarning

o'rtacha qiyinlik darajalari bir-biriga yaqin ekanligini ko'rish mumkin. Bu variantlarning test spetsifikatsiyaga qat'iy amal qilib tuzilganligi tufayli ularning o'rtacha qiyinlik darajalari bir-biriga yaqin chiqqanligini va parallellik imkon qadar ta'minlanganligini ko'rsatadi.

### 8-jadval

Huquqshunoslik (rus tili guruhlari uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlaridagi test variantlarining zamonaviy test nazariyasi asosida hisoblangan o'rtacha qiyinlik darajalari

| Kun | Smena | Variant | O'rtacha qiyinlik darajasi (2023) | O'rtacha qiyinlik darajasi (2024) |
|-----|-------|---------|-----------------------------------|-----------------------------------|
|-----|-------|---------|-----------------------------------|-----------------------------------|

|   |   |   |       |      |
|---|---|---|-------|------|
| 1 | 1 | 1 | -0,16 | 0,05 |
|   |   | 2 | -0,24 | 0,23 |
|   |   | 3 | 0,02  | 0,29 |

### 9-jadval

Huquqshunoslik (rus tili guruhlari uchun) guruhlari uchun) fanidan 2023-2024 va 2024-2025 -o'quv yillarida bakalavriatga kirish test sinovlaridagi test topshiriqlarining zamonaviy test nazariyasi asosida hisoblangan qiyinlik darajalari

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 1                                | 1   | 1     | 1       | -1,689                   | -2,923                   |
| 2                                | 1   | 1     | 1       | -1,611                   | -0,904                   |
| 3                                | 1   | 1     | 1       | -1,586                   | -0,442                   |
| 4                                | 1   | 1     | 1       | -1,364                   | -0,437                   |
| 5                                | 1   | 1     | 1       | -1,062                   | -0,300                   |
| 6                                | 1   | 1     | 1       | -0,954                   | -0,256                   |
| 7                                | 1   | 1     | 1       | -0,810                   | -0,227                   |
| 8                                | 1   | 1     | 1       | -0,784                   | -0,207                   |
| 9                                | 1   | 1     | 1       | -0,733                   | -0,174                   |
| 10                               | 1   | 1     | 1       | -0,570                   | -0,116                   |
| 11                               | 1   | 1     | 1       | -0,497                   | -0,076                   |
| 12                               | 1   | 1     | 1       | -0,321                   | -0,039                   |
| 13                               | 1   | 1     | 1       | -0,267                   | 0,044                    |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 14                               | 1   | 1     | 1       | -0,177                   | 0,063                    |
| 15                               | 1   | 1     | 1       | -0,069                   | 0,082                    |
| 16                               | 1   | 1     | 1       | -0,009                   | 0,097                    |
| 17                               | 1   | 1     | 1       | -0,009                   | 0,112                    |
| 18                               | 1   | 1     | 1       | 0,027                    | 0,214                    |
| 19                               | 1   | 1     | 1       | 0,437                    | 0,297                    |
| 20                               | 1   | 1     | 1       | 0,456                    | 0,297                    |
| 21                               | 1   | 1     | 1       | 0,468                    | 0,392                    |
| 22                               | 1   | 1     | 1       | 0,487                    | 0,422                    |
| 23                               | 1   | 1     | 1       | 0,506                    | 0,428                    |
| 24                               | 1   | 1     | 1       | 0,544                    | 0,453                    |
| 25                               | 1   | 1     | 1       | 0,622                    | 0,472                    |
| 26                               | 1   | 1     | 1       | 0,641                    | 0,498                    |
| 27                               | 1   | 1     | 1       | 0,654                    | 0,549                    |
| 28                               | 1   | 1     | 1       | 0,814                    | 0,959                    |
| 29                               | 1   | 1     | 1       | 0,917                    | 1,112                    |
| 30                               | 1   | 1     | 1       | 1,031                    | 1,136                    |
| 1                                | 1   | 1     | 2       | -2,034                   | -1,551                   |
| 2                                | 1   | 1     | 2       | -1,851                   | -1,420                   |
| 3                                | 1   | 1     | 2       | -1,168                   | -0,846                   |
| 4                                | 1   | 1     | 2       | -1,043                   | -0,523                   |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 5                                | 1   | 1     | 2       | -0,831                   | -0,373                   |
| 6                                | 1   | 1     | 2       | -0,804                   | -0,334                   |
| 7                                | 1   | 1     | 2       | -0,784                   | -0,252                   |
| 8                                | 1   | 1     | 2       | -0,729                   | -0,239                   |
| 9                                | 1   | 1     | 2       | -0,723                   | -0,163                   |
| 10                               | 1   | 1     | 2       | -0,506                   | -0,043                   |
| 11                               | 1   | 1     | 2       | -0,403                   | 0,010                    |
| 12                               | 1   | 1     | 2       | -0,397                   | 0,081                    |
| 13                               | 1   | 1     | 2       | -0,257                   | 0,110                    |
| 14                               | 1   | 1     | 2       | -0,250                   | 0,178                    |
| 15                               | 1   | 1     | 2       | -0,219                   | 0,202                    |
| 16                               | 1   | 1     | 2       | -0,143                   | 0,387                    |
| 17                               | 1   | 1     | 2       | -0,060                   | 0,423                    |
| 18                               | 1   | 1     | 2       | 0,022                    | 0,438                    |
| 19                               | 1   | 1     | 2       | 0,022                    | 0,590                    |
| 20                               | 1   | 1     | 2       | 0,047                    | 0,611                    |
| 21                               | 1   | 1     | 2       | 0,073                    | 0,621                    |
| 22                               | 1   | 1     | 2       | 0,098                    | 0,715                    |
| 23                               | 1   | 1     | 2       | 0,323                    | 0,731                    |
| 24                               | 1   | 1     | 2       | 0,349                    | 0,753                    |



| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 25                               | 1   | 1     | 2       | 0,388                    | 0,812                    |
| 26                               | 1   | 1     | 2       | 0,488                    | 0,934                    |
| 27                               | 1   | 1     | 2       | 0,514                    | 1,037                    |
| 28                               | 1   | 1     | 2       | 0,569                    | 1,126                    |
| 29                               | 1   | 1     | 2       | 0,651                    | 1,144                    |
| 30                               | 1   | 1     | 2       | 1,429                    | 1,909                    |
| 1                                | 1   | 1     | 3       | -1,909                   | -1,935                   |
| 2                                | 1   | 1     | 3       | -1,097                   | -0,726                   |
| 3                                | 1   | 1     | 3       | -0,772                   | -0,638                   |
| 4                                | 1   | 1     | 3       | -0,656                   | -0,460                   |
| 5                                | 1   | 1     | 3       | -0,568                   | -0,344                   |
| 6                                | 1   | 1     | 3       | -0,505                   | -0,266                   |
| 7                                | 1   | 1     | 3       | -0,450                   | -0,149                   |
| 8                                | 1   | 1     | 3       | -0,444                   | 0,042                    |
| 9                                | 1   | 1     | 3       | -0,444                   | 0,103                    |
| 10                               | 1   | 1     | 3       | -0,401                   | 0,150                    |
| 11                               | 1   | 1     | 3       | -0,401                   | 0,155                    |
| 12                               | 1   | 1     | 3       | -0,212                   | 0,185                    |
| 13                               | 1   | 1     | 3       | -0,188                   | 0,218                    |
| 14                               | 1   | 1     | 3       | -0,048                   | 0,220                    |

| Test topshiriqlari tartib raqami | Kun | Smena | Variant | Qiyinlik darajasi (2023) | Qiyinlik darajasi (2024) |
|----------------------------------|-----|-------|---------|--------------------------|--------------------------|
| 15                               | 1   | 1     | 3       | 0,049                    | 0,227                    |
| 16                               | 1   | 1     | 3       | 0,079                    | 0,350                    |
| 17                               | 1   | 1     | 3       | 0,085                    | 0,376                    |
| 18                               | 1   | 1     | 3       | 0,128                    | 0,431                    |
| 19                               | 1   | 1     | 3       | 0,196                    | 0,440                    |
| 20                               | 1   | 1     | 3       | 0,257                    | 0,600                    |
| 21                               | 1   | 1     | 3       | 0,276                    | 0,740                    |
| 22                               | 1   | 1     | 3       | 0,470                    | 0,761                    |
| 23                               | 1   | 1     | 3       | 0,470                    | 0,834                    |
| 24                               | 1   | 1     | 3       | 0,477                    | 0,892                    |
| 25                               | 1   | 1     | 3       | 0,712                    | 0,917                    |
| 26                               | 1   | 1     | 3       | 0,780                    | 0,952                    |
| 27                               | 1   | 1     | 3       | 0,876                    | 1,013                    |
| 28                               | 1   | 1     | 3       | 0,890                    | 1,201                    |
| 29                               | 1   | 1     | 3       | 1,302                    | 1,331                    |
| 30                               | 1   | 1     | 3       | 1,522                    | 1,366                    |

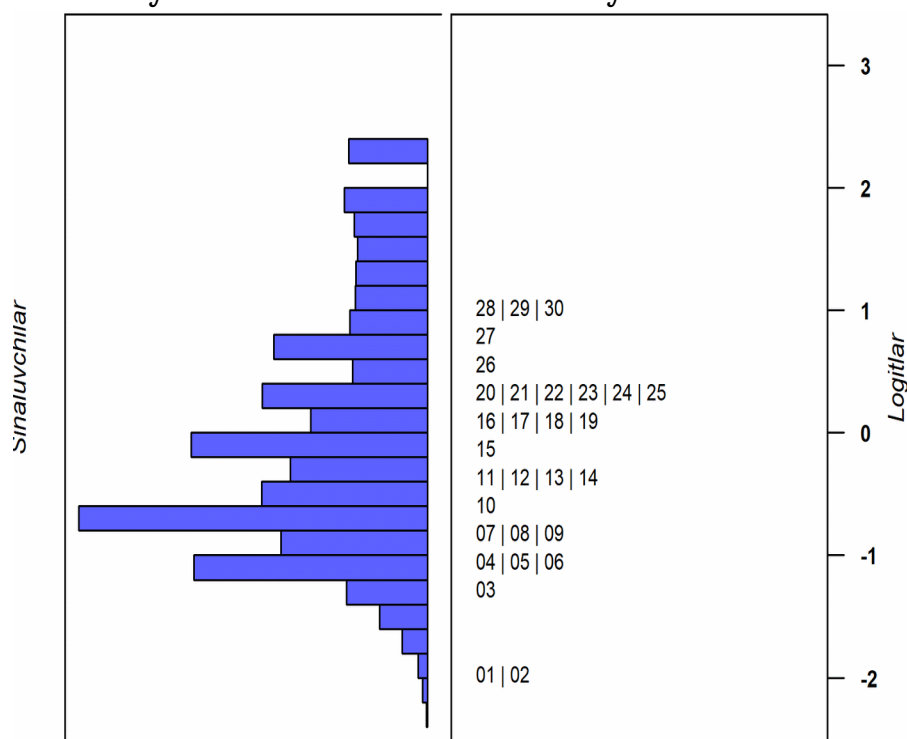
Shu bilan birga test variantlarning parallelligini to'liq ta'minlash imkoni yo'qligini ta'kidlab o'tmoqchimiz. Bunday muammolarni yechish uchun turli xil usullar ishlab chiqilgan [6].

Rash modeli [7-9] asosida aniqlangan qiyinlik darajalarini sinaluvchilar qobiliyatlariga qanchalik mosligini Rayt xaritasi yordamida tahlil qilish mumkin. Rayt xaritasi – test topshiriqlarining qiyinlik darajalari va sinaluvchilarning

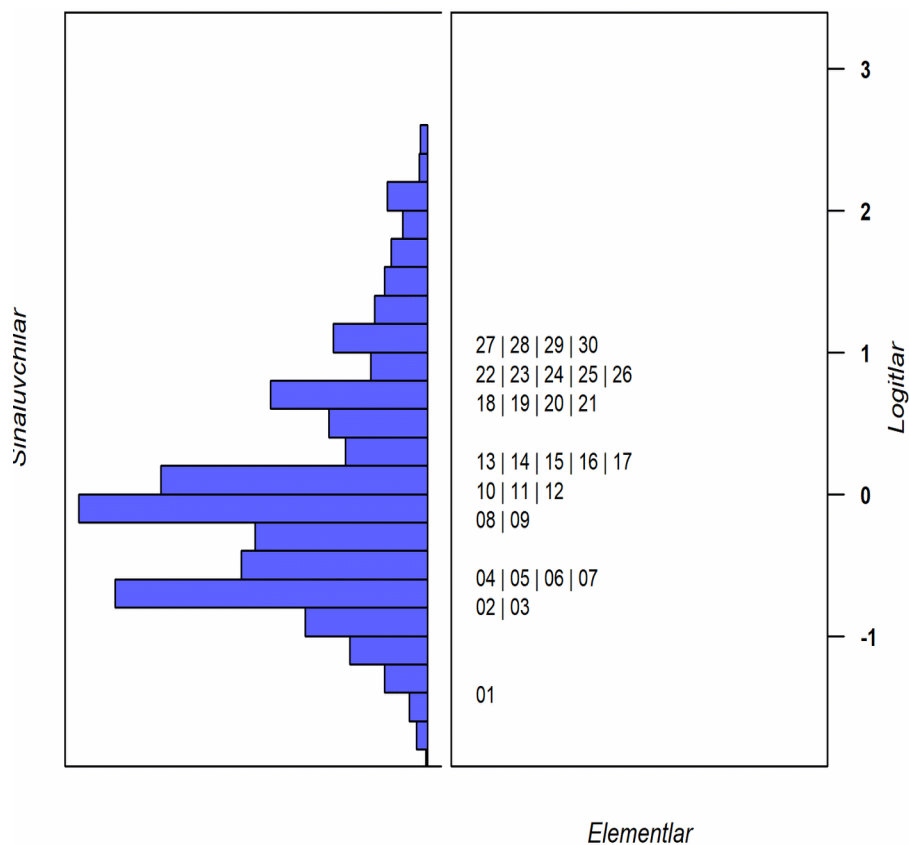
qobiliyat darajalarini o'zaro mos kelishini aniqlovchi diagrammadir [10].

Huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlar uchun) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan qobiliyat va qiyinlik darajalarining mosligi (Rayt xaritasi) 1-rasmda keltirilgan. Rasmdan test sinovlarida foydalanilgan barcha test variantlarida asosiy sinaluvchilar

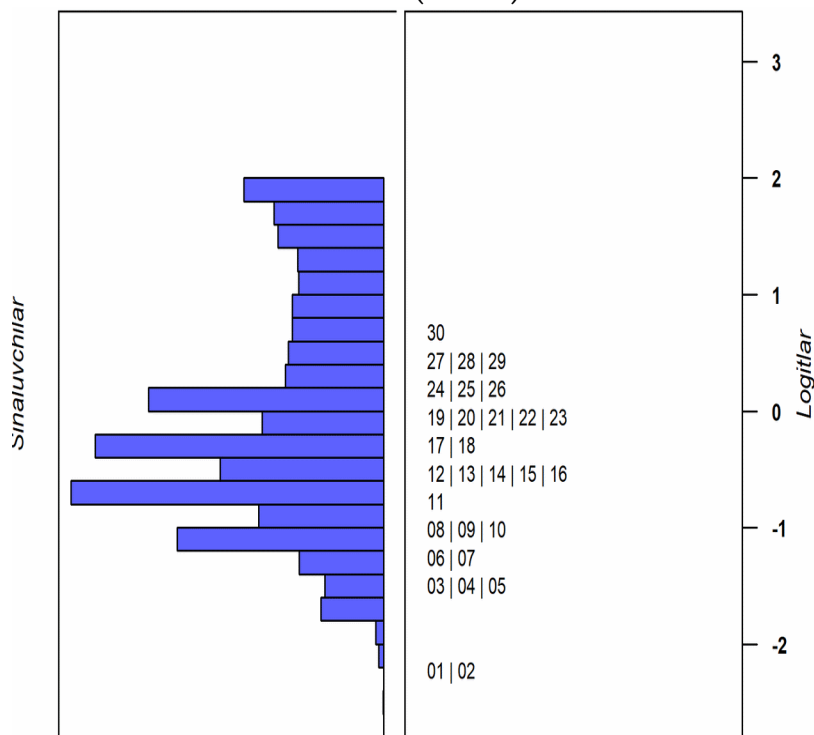
qobiliyat darajalari  $(-2,5:2,5)$  logit birligi orasida, test topshiriqlari qiyinlik darajalari esa  $(-2,9:1,9)$  oraliqda taqsimlanganligini ko'rish mumkin. Bu tayyorgarlik darajalari yuqori bo'lgan sinaluvchilar soni normada ekanligini bildiradi. Bu holat ikkita o'quv yilida ham deyarli bir xil ekanligini hisobga olsak, tayyorgarlik darajalari yuqori bo'lgan sinaluvchilarning ulushi 2024-2025-o'quv yilida ham deyarli o'zgarmagan deb aytish mumkin.



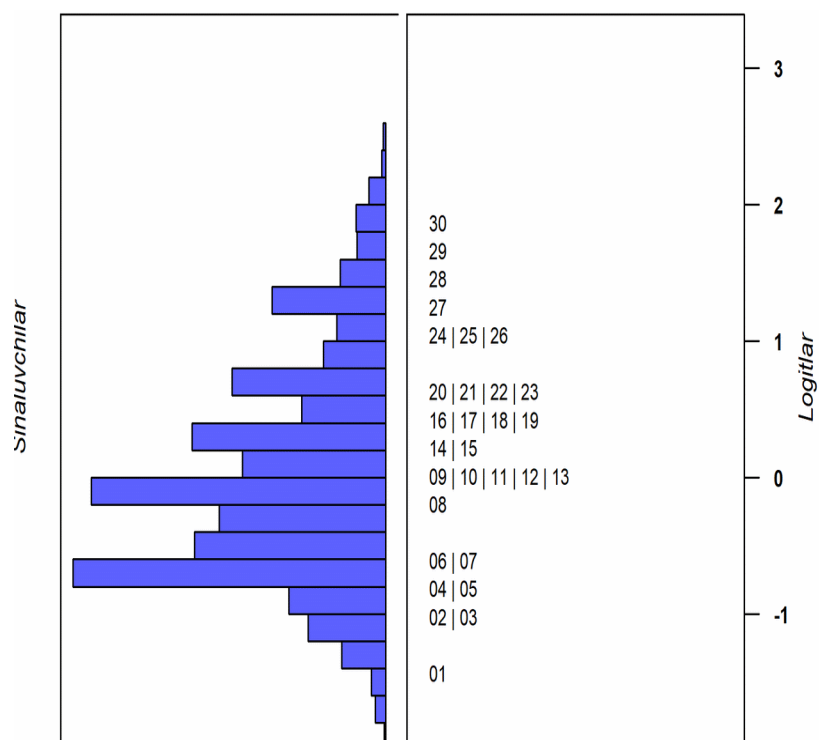
1-1-1 (2023)



1-1-1 (2024)

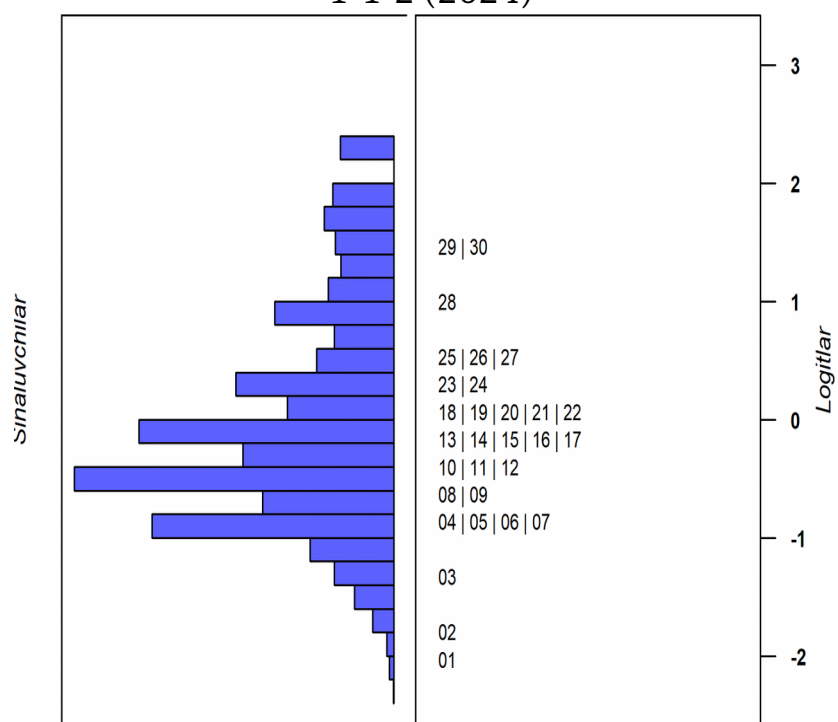


1-1-2 (2023)



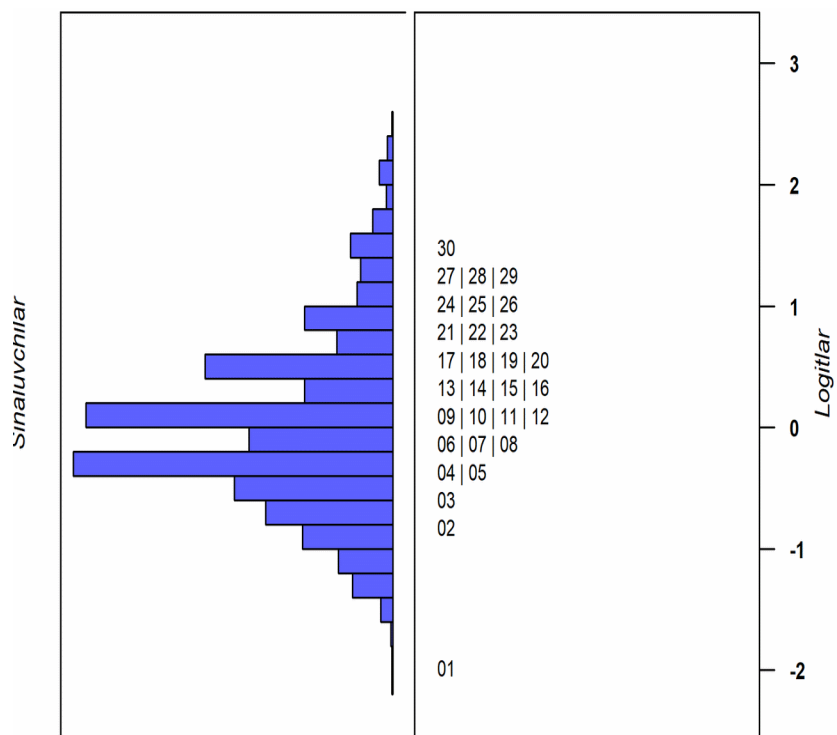
*Elementlar*

1-1-2 (2024)

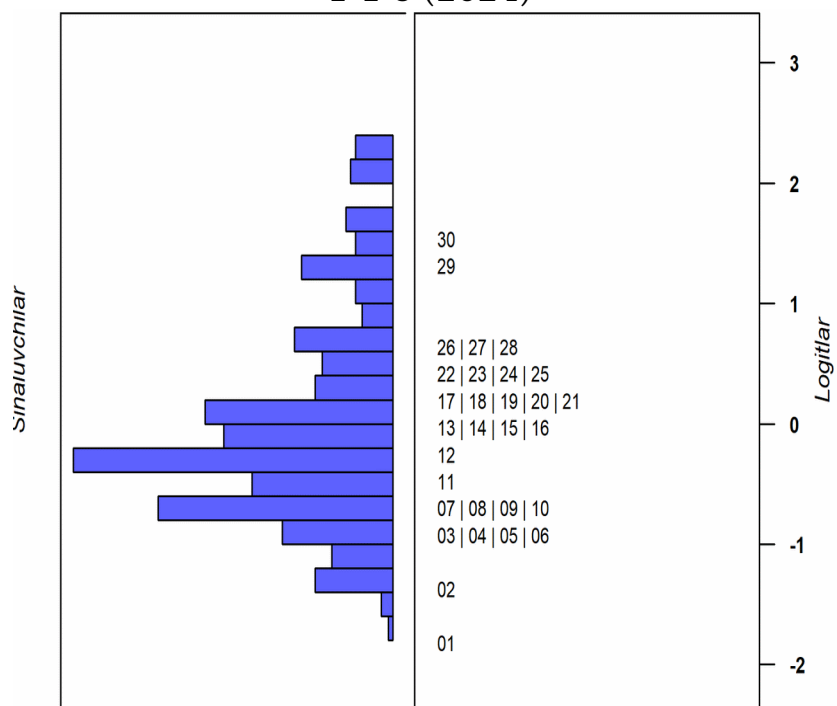


*Elementlar*

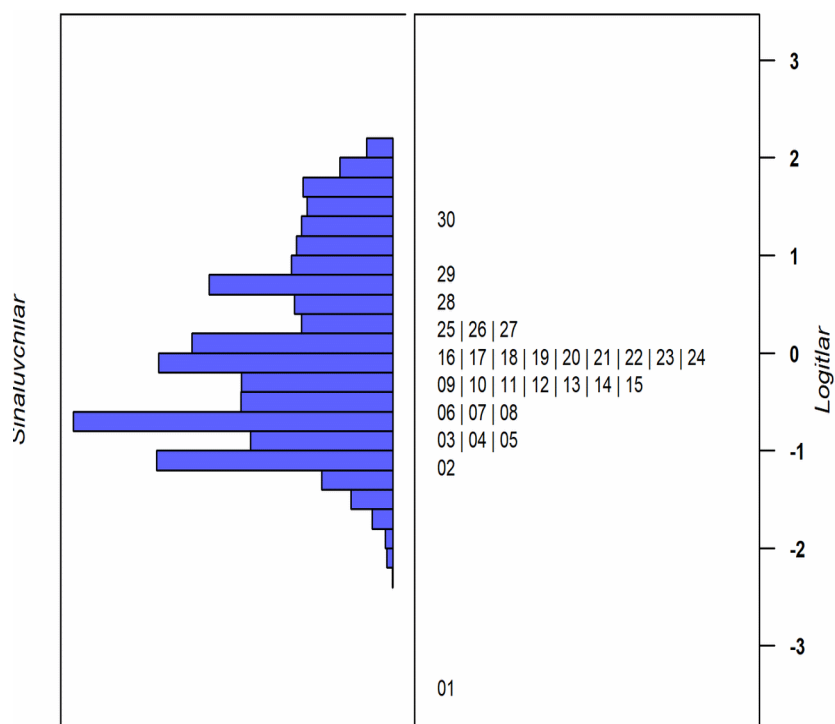
1-1-3 (2023)



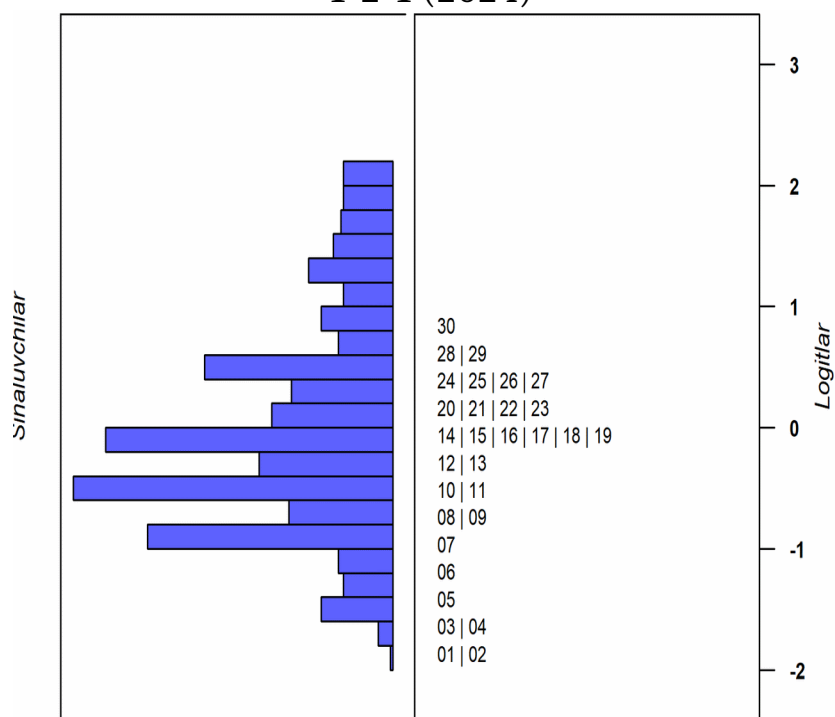
1-1-3 (2024)



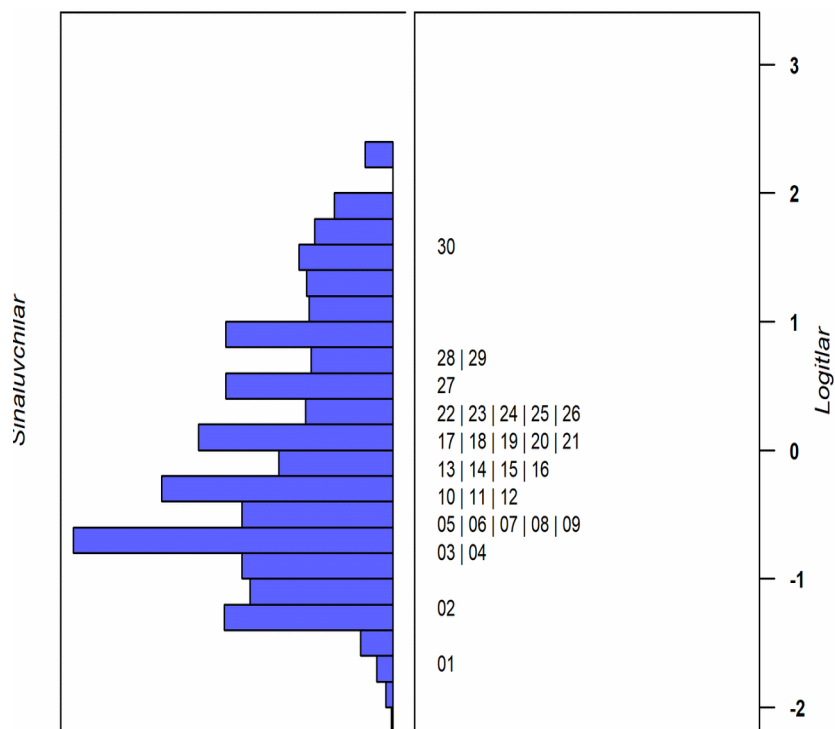
1-2-1 (2023)



1-2-1 (2024)

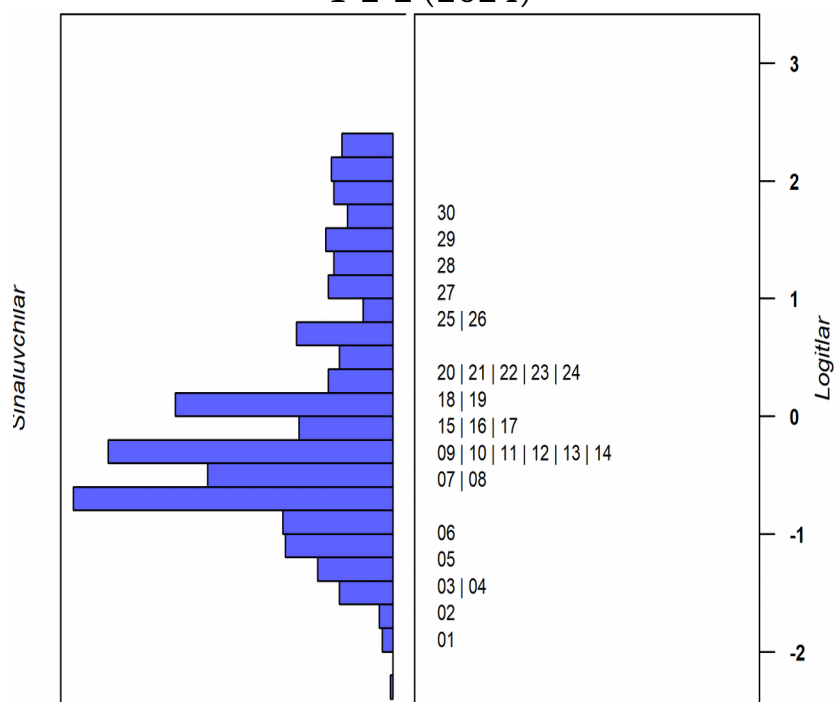


1-2-2 (2023)



*Elementlar*

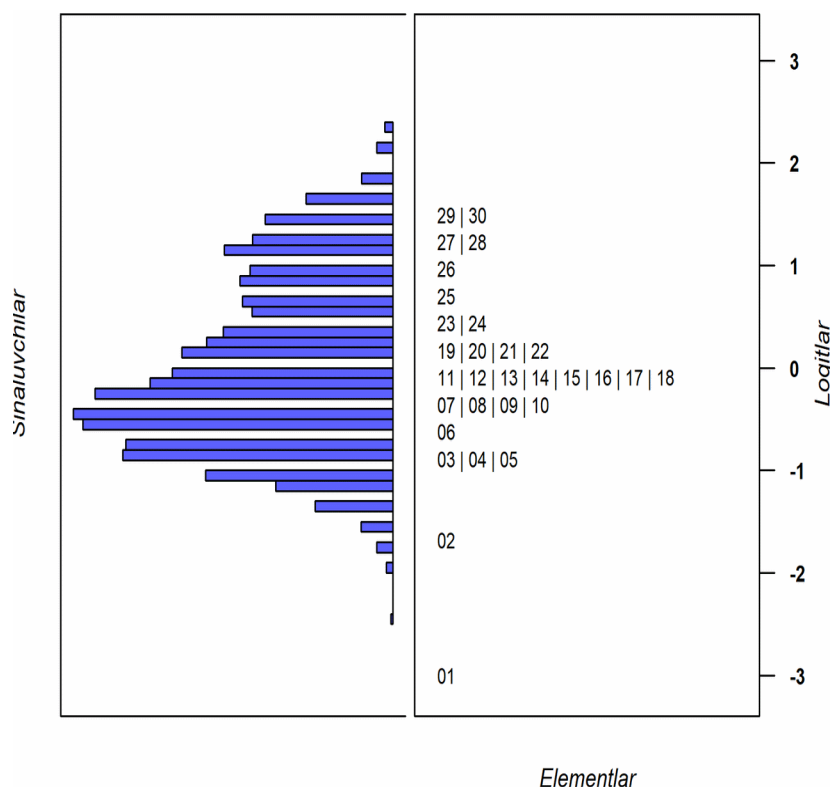
1-2-2 (2024)



*Elementlar*

1-2-3 (2023)



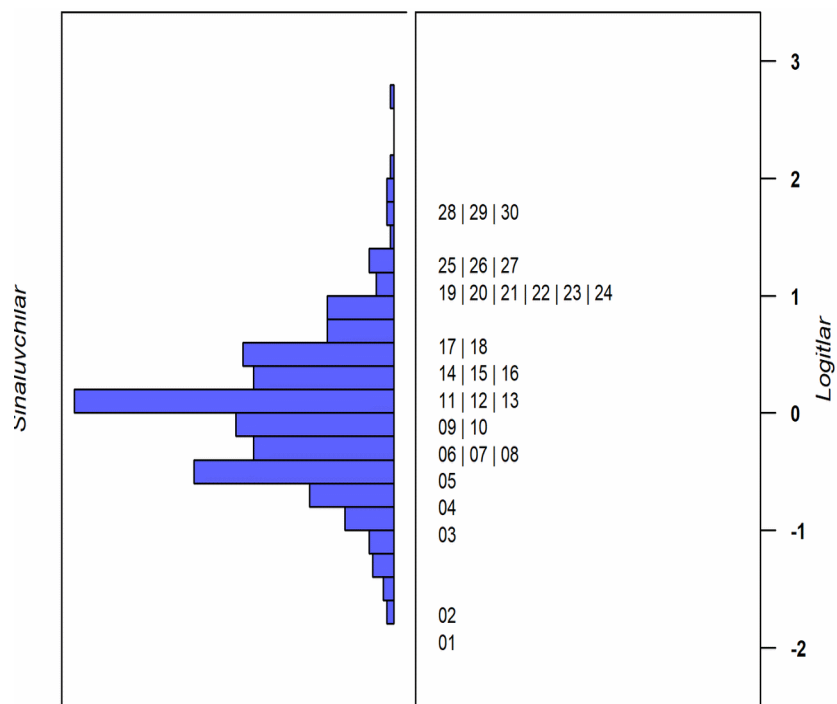


1-2-3 (2024)

1-rasm. Huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlari uchun) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan qobiliyat va qiyinlik darajalarining mosligi (Rayt xaritasi)

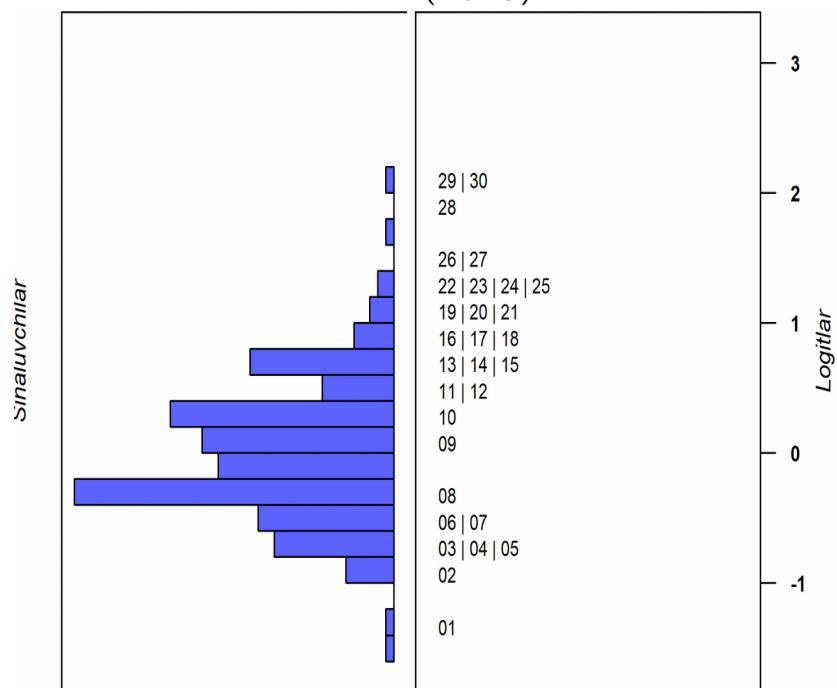
Huquqshunoslik (o'zbek tili (kirill alifbosida) guruhlari uchun) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan qobiliyat va qiyinlik darajalarining mosligi (Rayt xaritasi) 2-rasmda keltirilgan. Rasmdan test sinovlarida foydalanilgan barcha test varianlarida asosan sinaluvchilar qobiliyat darajalari  $(-2,4;2,3)$  logit birligi orasida, test topshiriqlari

qiyinlik darajalari esa  $(-2,2;2,9)$  oraliqda taqsimlanganligini ko'rish mumkin. Bu tayyorgarlik darajalari yuqori bo'lgan sinaluvchilar huquqshunoslik (o'zbek tili (lotin alifbosida) guruhlari uchun) fanidan test topshirgan sinaluvchilarga nisbatan kamroq ekanligini ko'rsatadi. Lekin ikkita o'quv yilida ham tayyorgarlik darajalari yuqori bo'lgan sinaluvchilar ulushi o'zgarmaganligini ta'kidlash lozim.



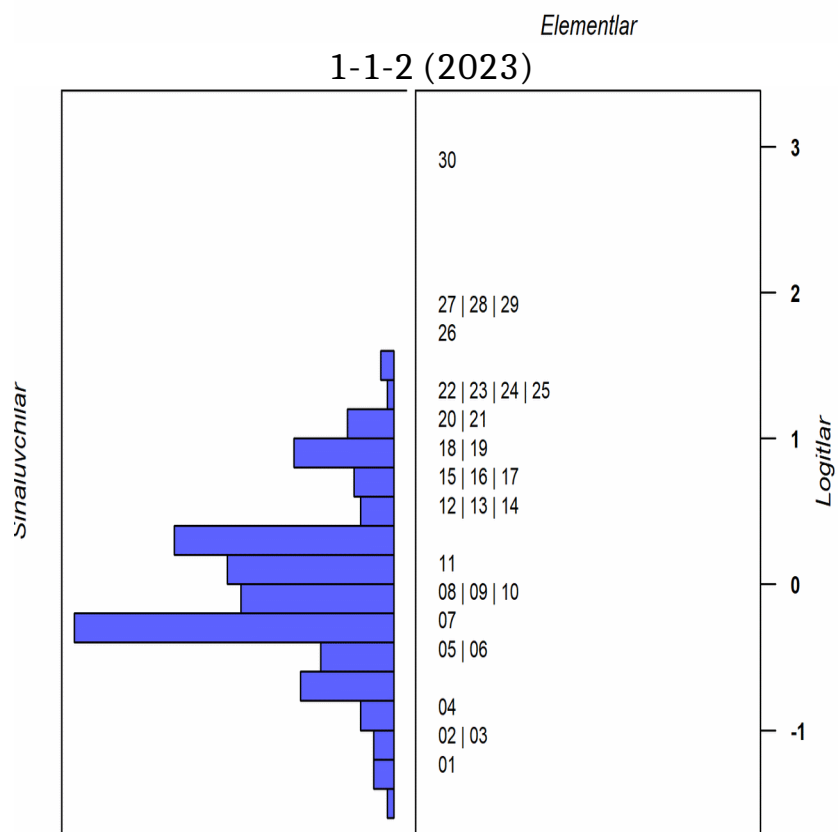
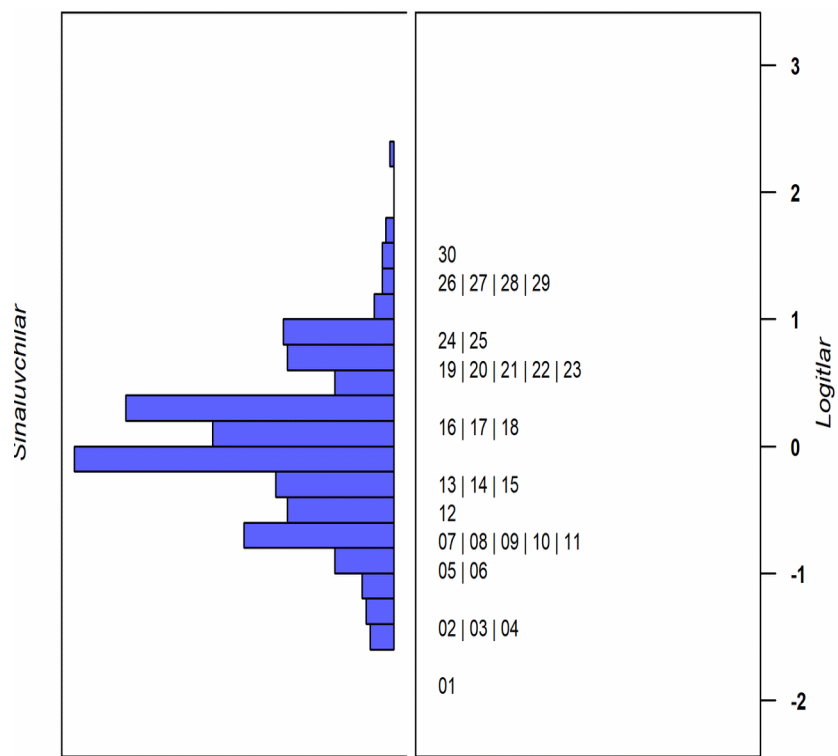
*Elementlar*

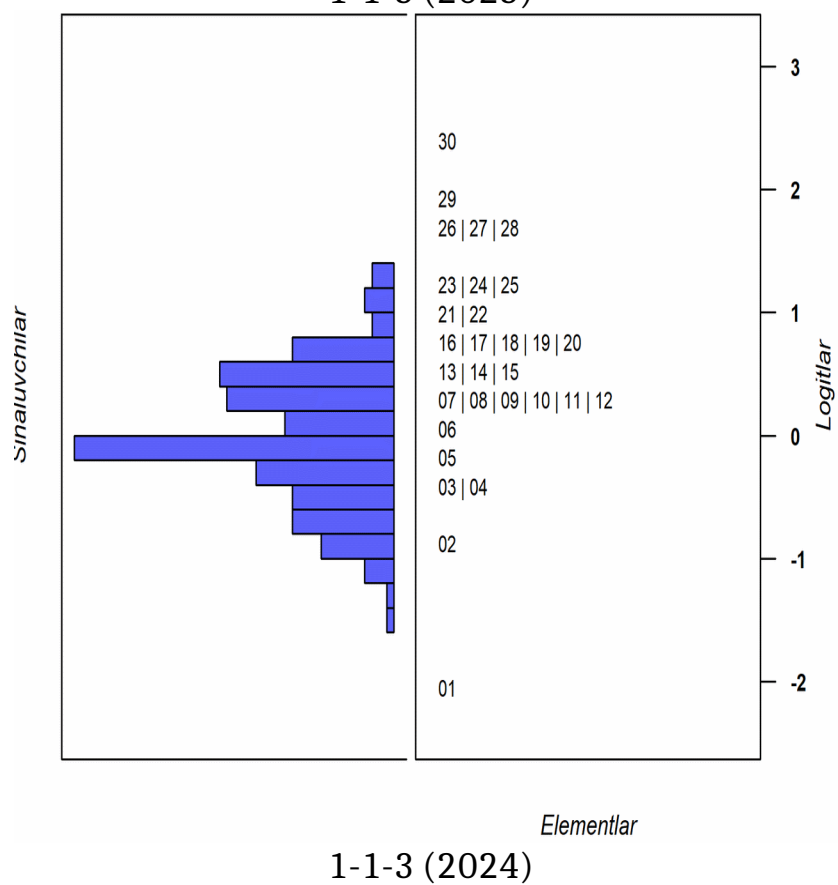
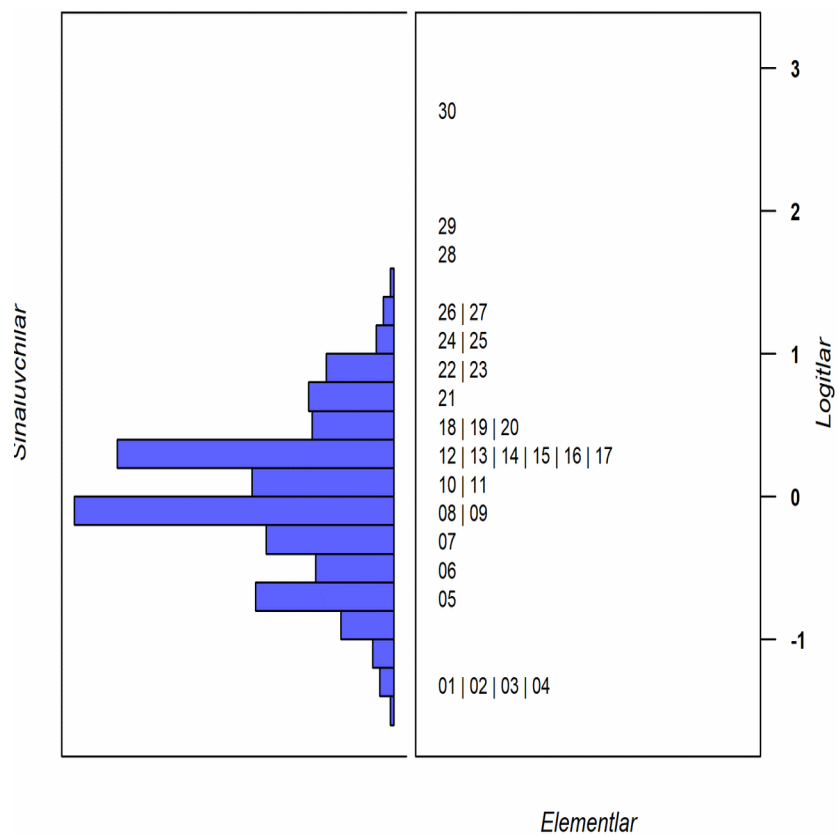
1-1-1 (2023)



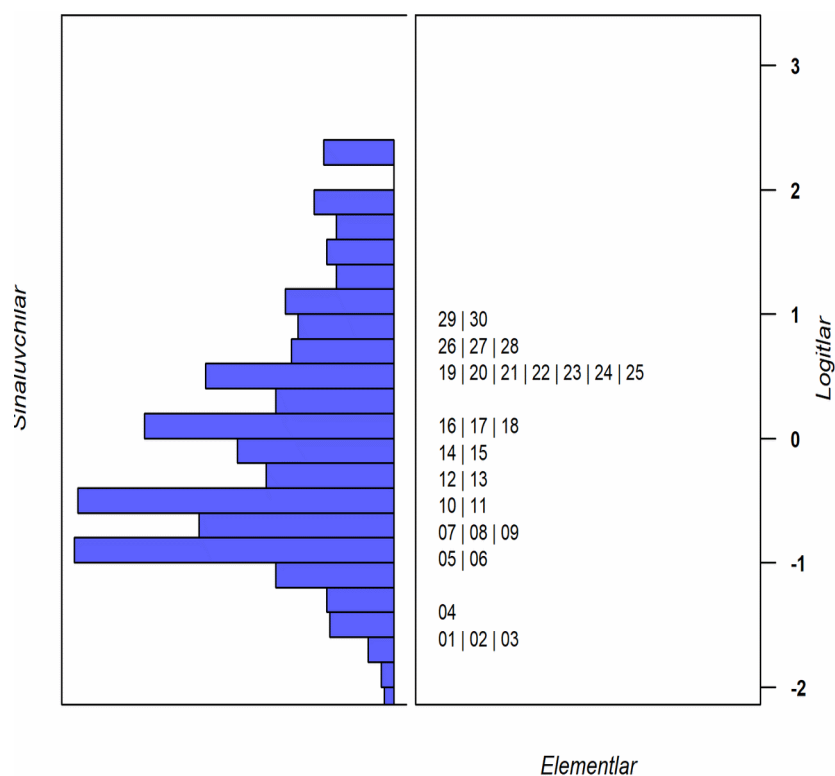
*Elementlar*

1-1-1 (2024)

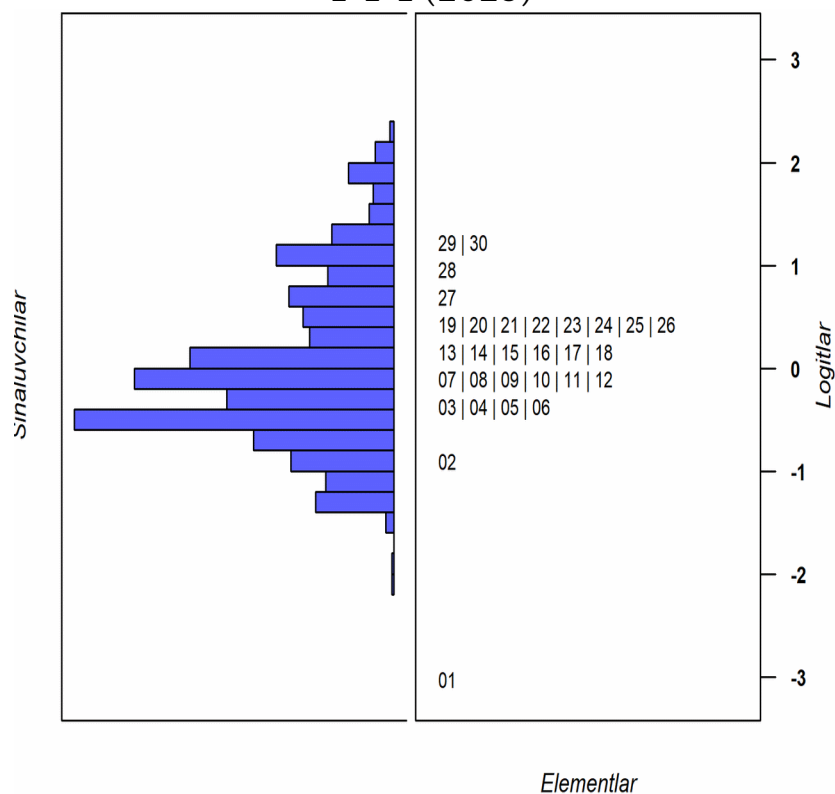




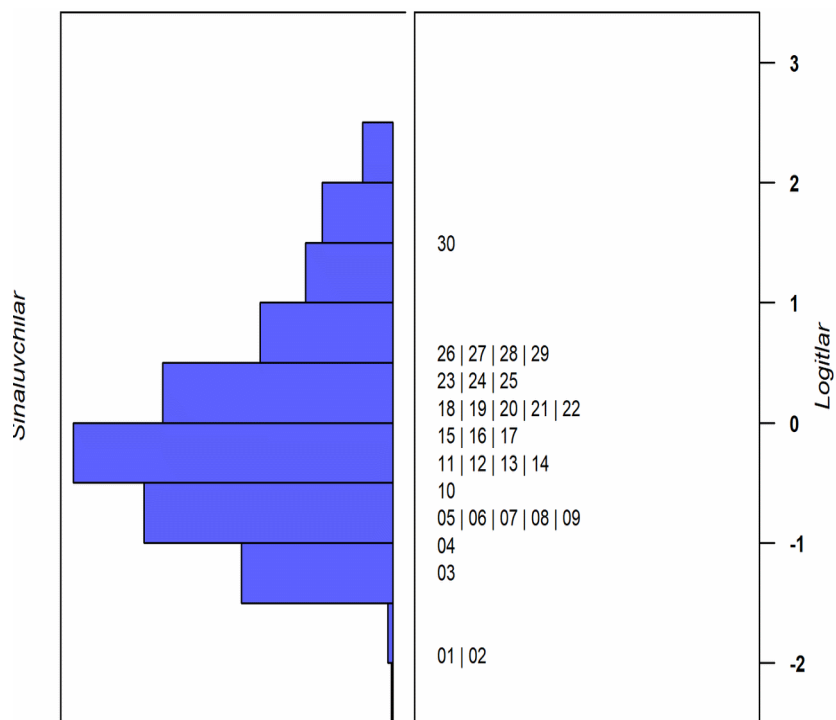
2-rasm. Huquqshunoslik (o'zbek tili (kirill alifbosida) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan qobiliyat va qiyinlik darajalarining mosligi (Rayt xaritasi)



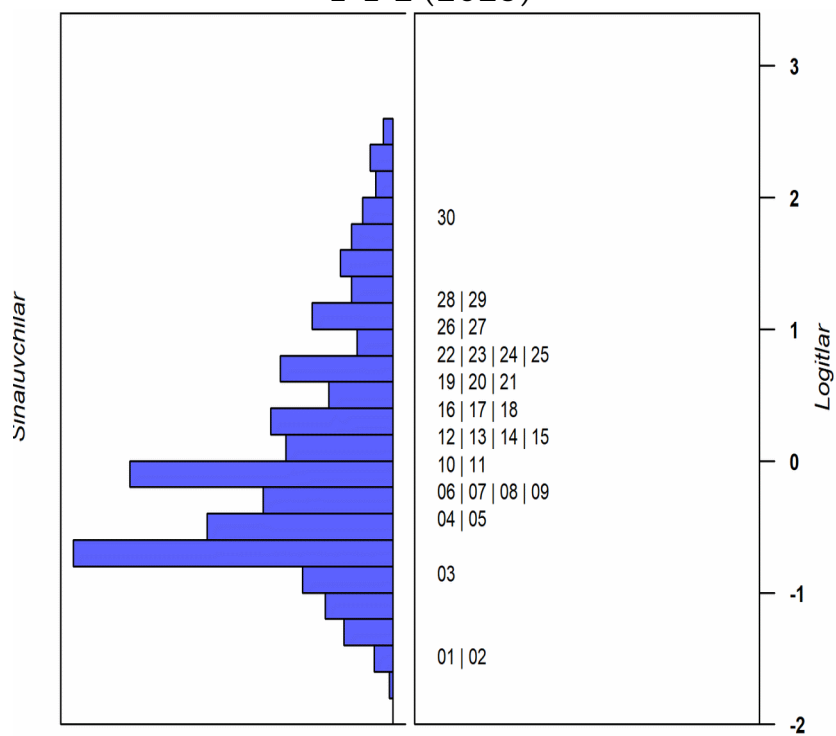
1-1-1 (2023)



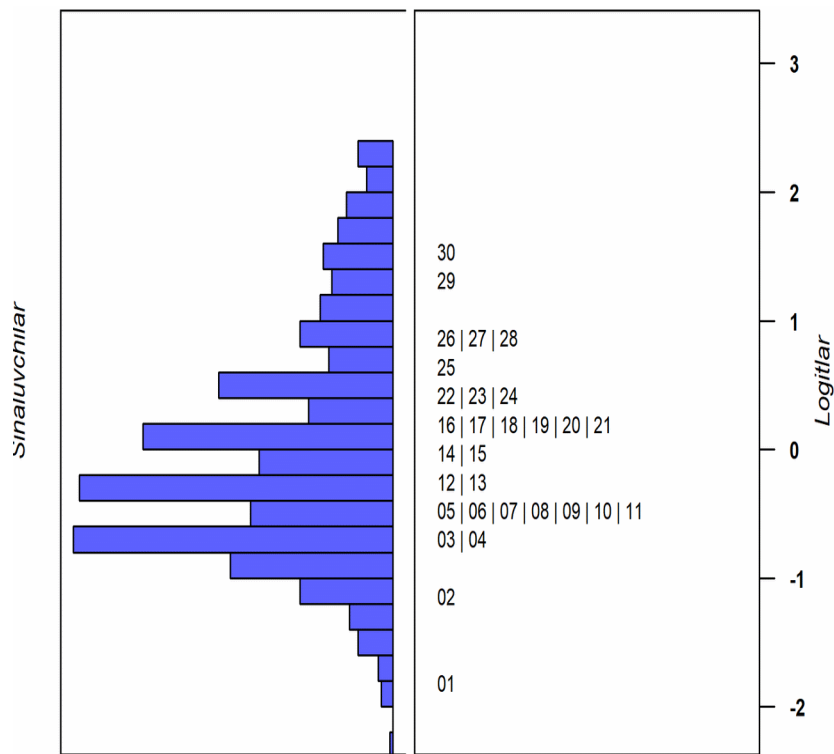
1-1-1 (2024)



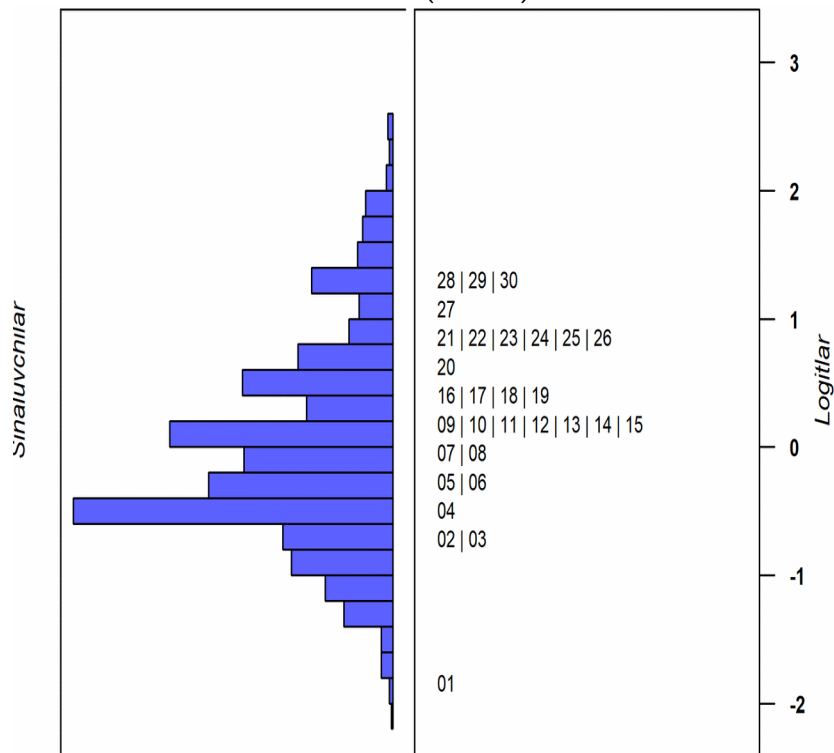
1-1-2 (2023)



1-1-2 (2024)



1-1-3 (2023)



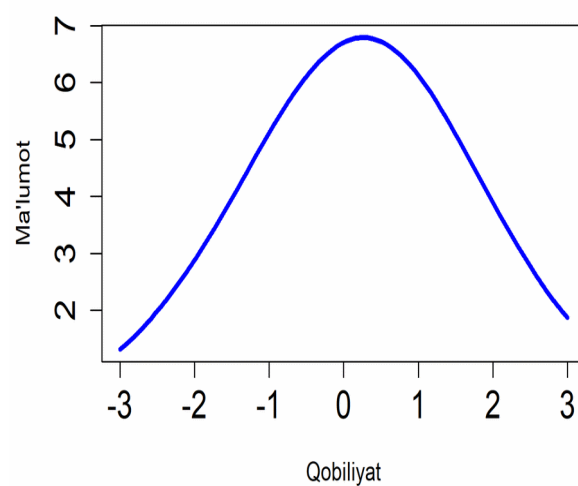
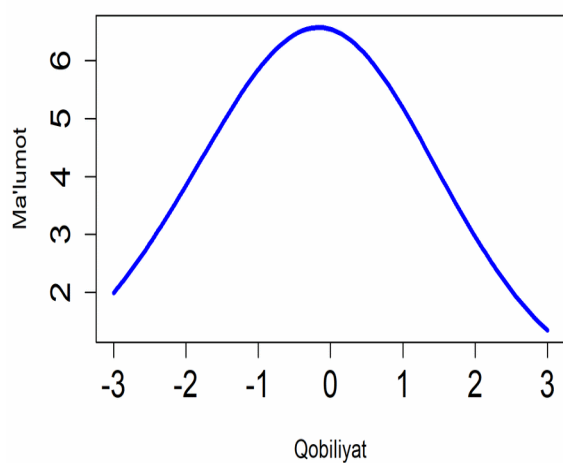
1-1-3 (2024)

### 3-rasm. Huquqshunoslik (rus tili guruhlari uchun) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan qobiliyat va qiyinlik darajalarining mosligi (Rayt xaritasi)

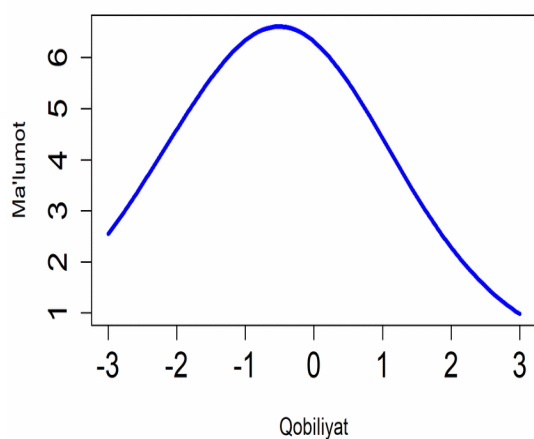
3-rasmda huquqshunoslik (rus tili guruhlari uchun) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan qobiliyat va qiyinlik darajalarining mosligi (Rayt xaritasi) keltirilgan. Rasmdan test sinovlarida foydalanilgan barcha test variantlarida asosan sinaluvchilar qobiliyat darajalari  $(-2,5:2,5)$  logit birligi orasida, test topshiriqlari qiyinlik darajalari esa  $(-2,9:1,9)$  oraliqda taqsimlanganligini ko'rish mumkin. Sinaluvchilar qobiliyat darajalari va test topshiriqlarining qiyinlik darajalari o'zbek tili (lotin alifbosida) guruhlari bilan deyarli bir xil. Bu holat ikkita o'quv yilida ham bir-biriga yaqin ekanligini hisobga olsak, tayyorgarlik darajalari yuqori bo'lgan sinaluvchilarning ulushi 2024-2025-o'quv yilida ham sezilarli o'zgarmagan deb aytish mumkin.

4- va 5- rasmlarda huquqshunoslik (o'zbek tili (lotin va kirill alifbosida) guruhlari uchun) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalar asosida aniqlangan test ma'lumoti chiziqlari keltirilgan. O'zbek tili (lotin alifbosida) guruhlari uchun foydalanilgan barcha test varianlarida test ma'lumoti chizig'i cho'qqisi o'rtachaga yaqin. Bu test varianlari ko'proq qobiliyat darajasi o'rtacha bo'lgan sinaluvchilar to'g'risida ma'lumot berishini anglatadi, chunki test topshiriqlarining aksariyati o'zlashtirish darajasi o'rtacha bo'lgan sinaluvchilarga mos. Test ma'lumoti chiziqlaridan ham o'zlashtirish darajalari ikkita o'quv yilida ham sinaluvchilarning tayyorgarlik darajalari sezilarli o'zgarmaganligini ko'rish mumkin.

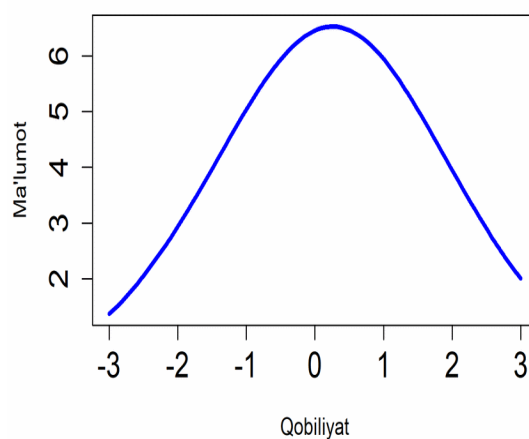




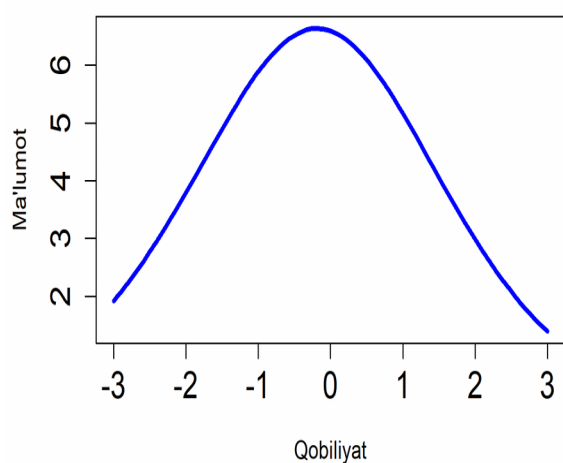
1-1-1 (2023)



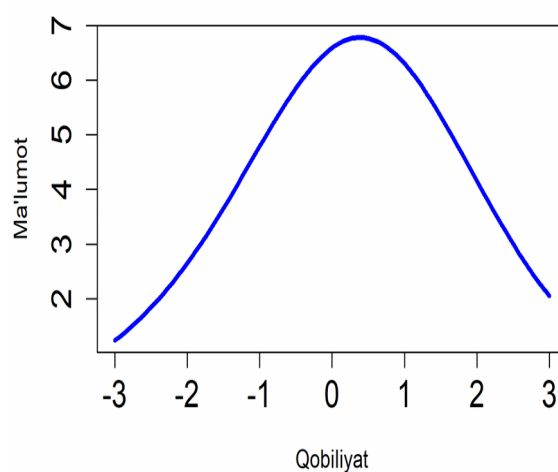
1-1-1 (2024)



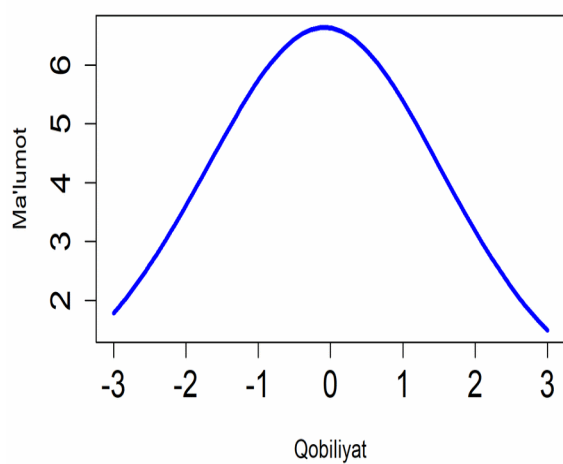
1-1-2 (2023)



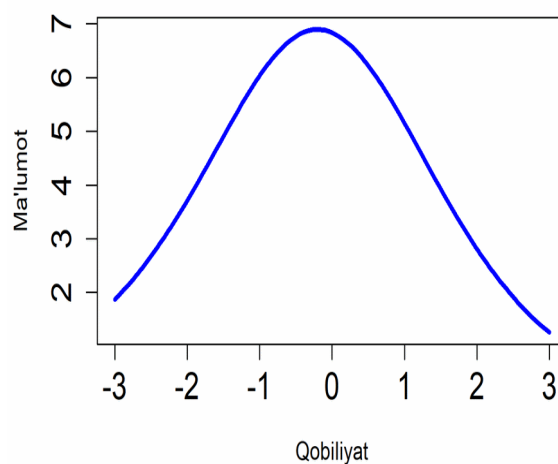
1-1-2 (2024)



1-1-3 (2023)

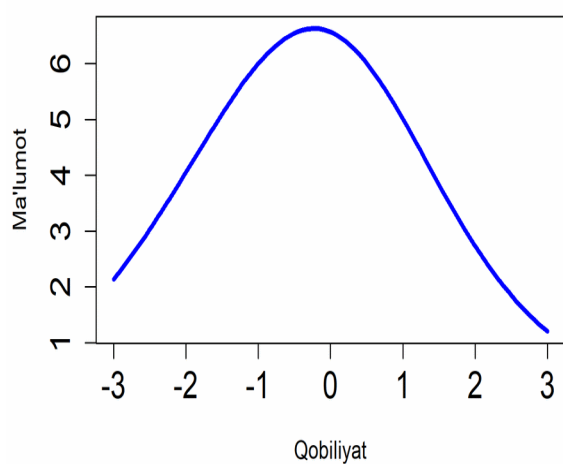


1-1-3 (2024)

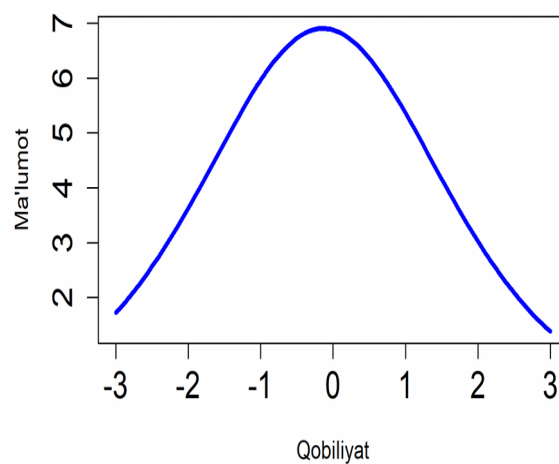


1-2-1 (2023)

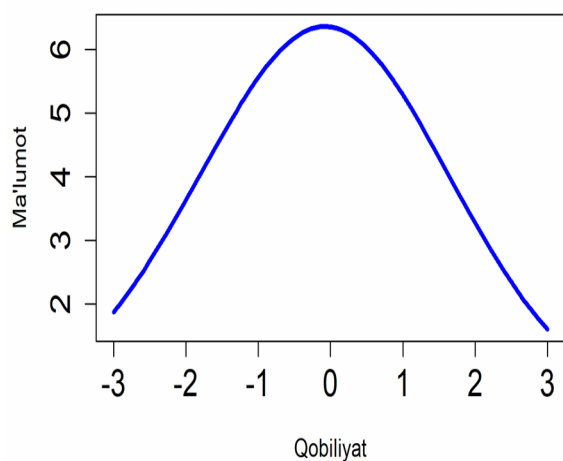
1-2-1 (2024)



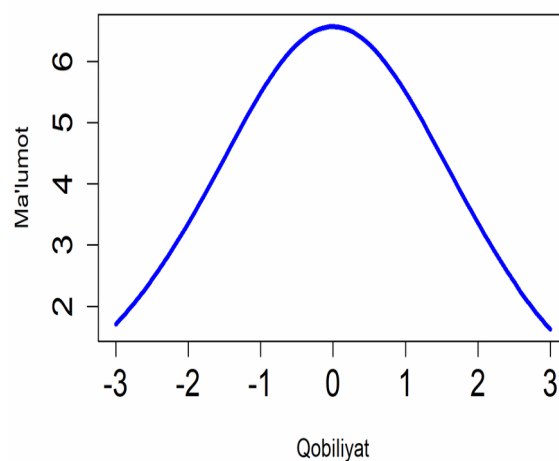
1-2-2 (2023)



1-2-2 (2024)

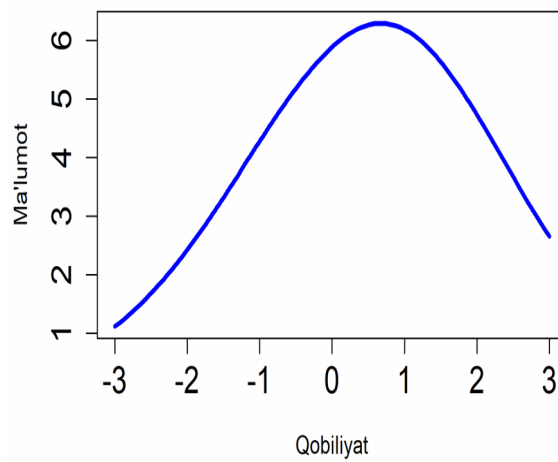
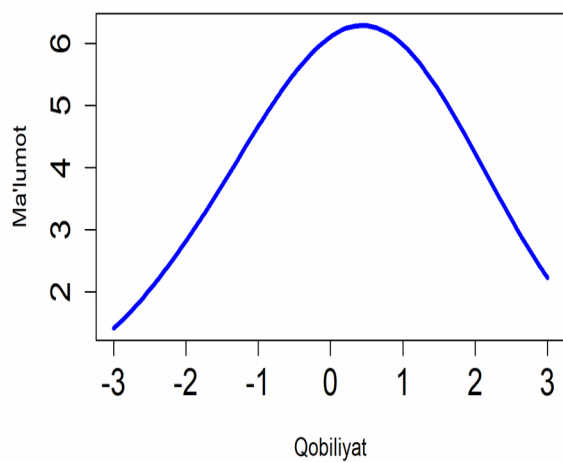


1-2-3 (2023)

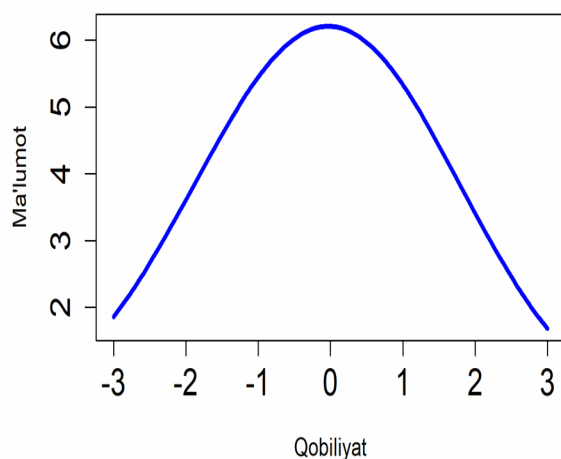


1-2-3 (2024)

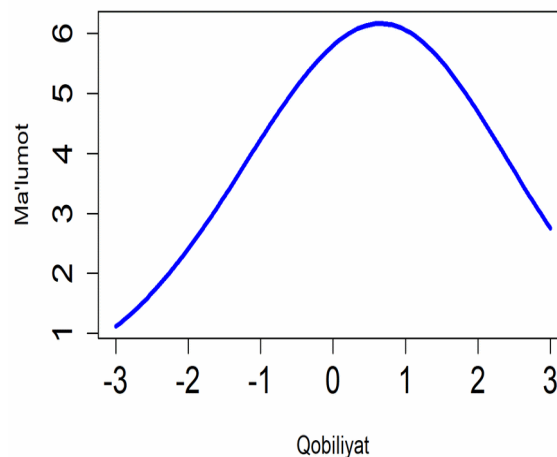
4-rasm. Huquqshunoslik (o'zbek tili (lotin alifbosida) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan test ma'lumoti chiziqlari



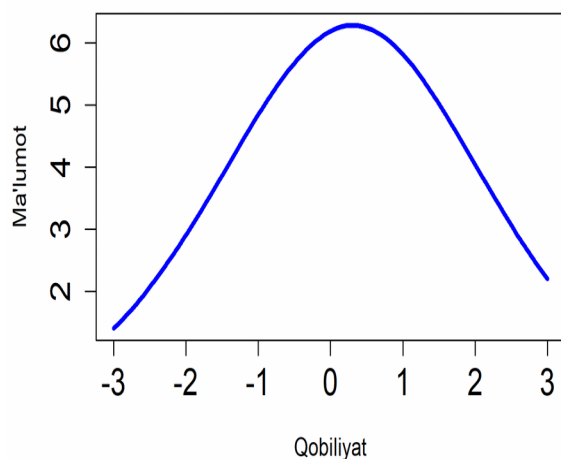
1-1-1 (2023)



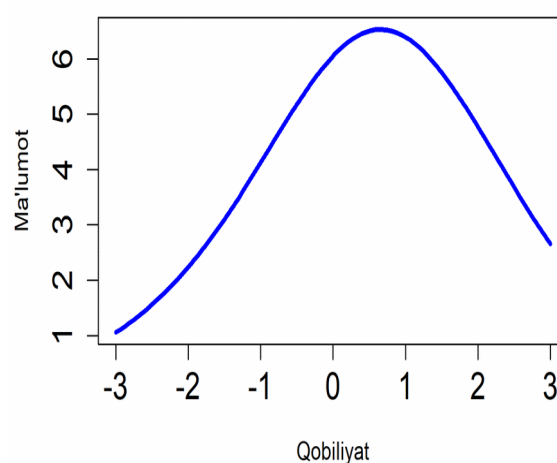
1-1-1 (2024)



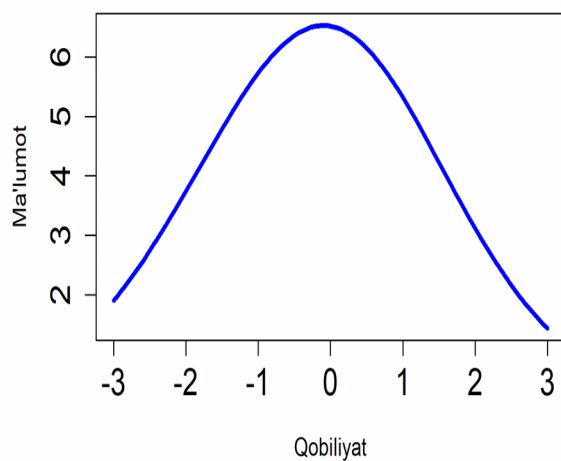
1-1-2 (2023)



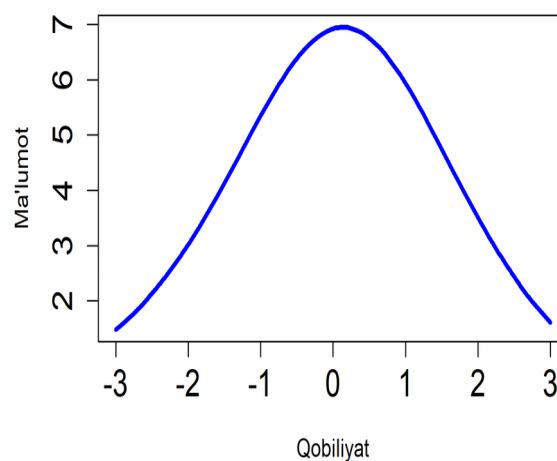
1-1-2 (2024)



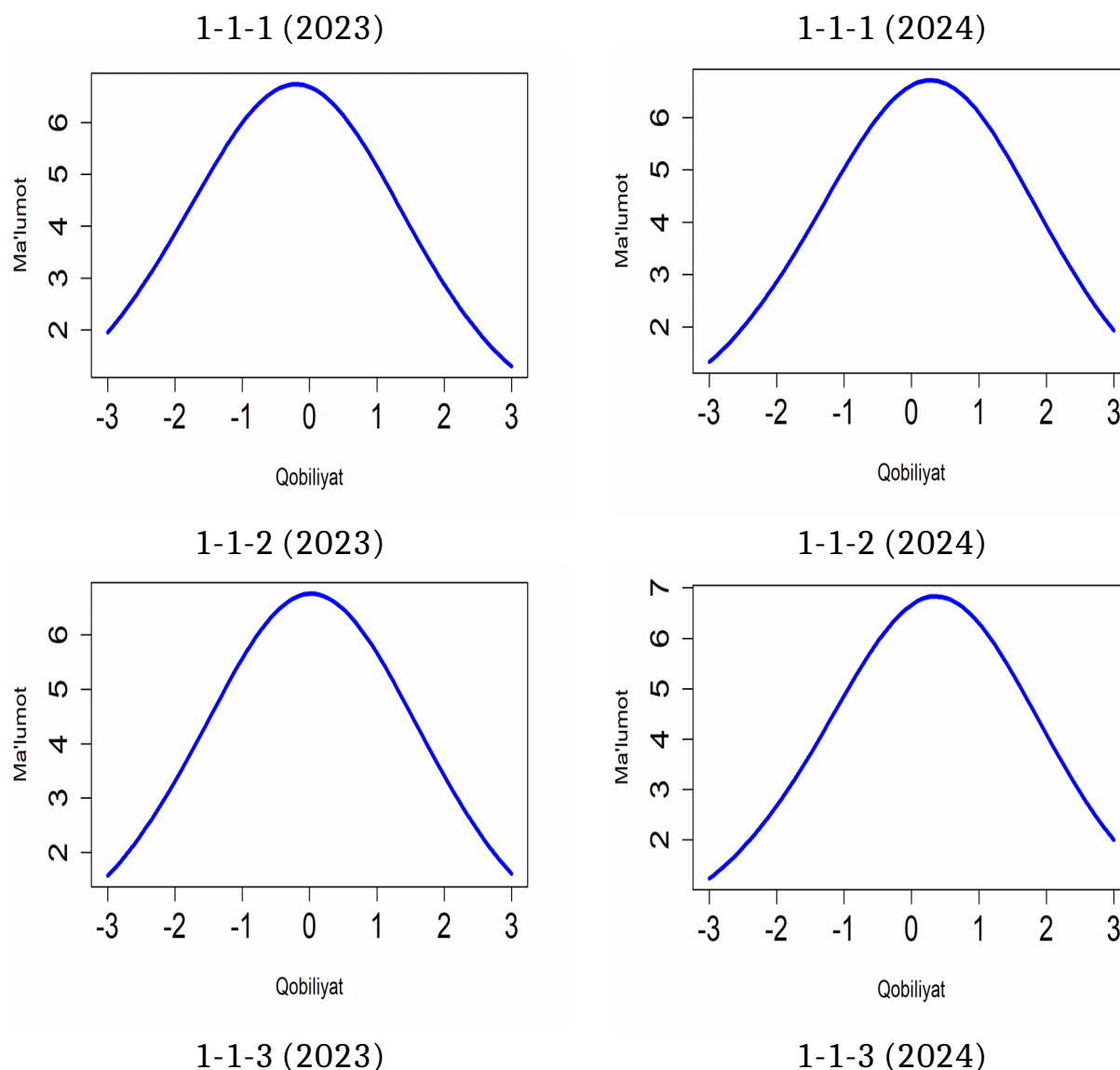
1-1-3 (2023)



1-1-3 (2024)



5-rasm. Huquqshunoslik (o'zbek tili (kirill alifbosida) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan test ma'lumoti chiziqlari



6-rasm. Huquqshunoslik (rus tili fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan test ma'lumoti chiziqlari

6-rasmda ham huquqshunoslik (rus tili guruhlar uchun) fanidan 2023-2024 va 2024-2024-o'quv yillarida bakalavriatga kirish test sinovlaridagi natijalari asosida aniqlangan test ma'lumoti chiziqlari keltirilgan bo'lib, barcha test varianlarida test ma'lumoti chizig'i cho'qqisi nol va bir o'rtasida ekanligi

ko'rinadi. Bu esa test variantlari ko'proq qobiliyat darajasi yuqori bo'lgan sinaluvchilar to'g'risida ma'lumot berishini anglatadi. Test ma'lumoti chiziqlaridan ham test variantlari parallel tuzilganligini, o'zlashtirish darajalari yuqori bo'lgan sinaluvchilar ulushi katta ekanligini ko'rish mumkin.

## Xulosa

Huquqshunoslik (o'zbek (lotin va kirill alifbosida) va rus tili guruhlar uchun) fanidan 2023-2024 va 2024-2025-o'quv yillarida bakalavriatga kirish test sinovlarining natijalarining klassik va zamonaviy test nazariyalari bilan tahlili natijasida olingan ma'lumotlar solishtirish orqali o'rganildi. Bu orqali ikkita o'quv yilida o'tkazilgan test sinovlarida foydalanilgan test varianlarining o'rtacha qiyinlik darajalari, test topshiriqlarining qiyinlik darajalari va qobiliyat darajalarini o'zaro mosligini ifodalovchi Rayt xaritasi, o'rtacha qiymati, mediana, moda, o'lchashning standart xatoligi va sinaluvchilarning qobiliyat darajalari bir-biriga yaqin ekanligi aniqlandi. Bundan 2023-2024 va 2024-2025-o'quv yillarida huquqshunoslik fanidan o'tkazilgan test sinovlarining yaxshi o'tkazilganligi haqida xulosa qilish mumkin.

Huquqshunoslik fanidan 2023-2024 va 2024-2025-o'quv yillarida

bakalavriatga kirish test sinovlarida parallel test varianlaridan foydalanganligi va ikkita o'quv yilda ham sinaluvchilarning tayyorgarlik darajalari sezilarli o'zgarmaganligi aniqlandi.

Test variantlarining test ma'lumoti chizig'i cho'qqisi o'rtachaga yaqin bo'lib, bu ko'proq qobiliyat darajasi o'rtacha bo'lgan sinaluvchilar to'g'risida ma'lumot olish mumkinligini bildiradi.

Test topshiriqlari sinaluvchilar tomonidan o'zlashtirishlari kerak bo'lgan dastur asosida tuzilgan bo'lsa, tavsif statistikasi, Rayt xaritasidagi test topshiriqlari qiyinlik darajalarining sinaluvchilar qobiliyat darajalariga mosligi va test xarakteristikasi chiziqlarining joylashuvi yaxshilanishi uchun o'zlashtirish darajasi yuqori bo'lgan sinaluvchilar soni yetarli bo'lishi lozim.

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## COMPARISON OF JURISPRUDENCE TEST RESULTS FOR 2023-2024 AND 2024-2025 ACADEMIC YEARS

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**Abstract.** This article compares the statistics of the the entrance test results for the bachelor's degree in jurisprudence (for the Uzbek and Russian language groups) in the 2022-2023 and 2023-2024 academic years with classical test theory and Rasch model. Conclusions are given about the average difficulty levels of the test variants used in the undergraduate entrance tests conducted in two academic years, the difficulty levels of the test tasks and the test-taker's ability levels, the average value, the median, mode, and standard error of measurement. The Wright map, which show the correspondence degree between item and ability levels, and test information curves have been studied. It has been shown that parallel test variants were used in the jurisprudence subject entrance exams for the 2023-2024 and 2024-2025 academic years, and the proficiency of test takers remained essentially unchanged in both years.

**Keywords:** Classical test theory, Rasch model, item difficulty, ability, WrightMap