**11-sinf Matematika fanidan IV-chorak uchun test savollari.**

**№1.** Massasi 735 gr va konsentratsiyasi 16% bo’lgan yodning spirtdagi eritmasiga qancha toza spirt

 qo’shilsa, uning konsentratsiyasi 10% bo’ladi?

 A. 420 B. 252 C. 441 D. 256

**№2.** $y=6^{ln⁡(x^{2}+5)}$ funksiyasining kamayish oralig’ini toping.

 A. (0;+∞) B. (-∞;0] C. $(-\sqrt{5};\sqrt{5})$ D. $∅$

**№3.** x=1, y=2x va y=2-x chiziqlari bilan chegaralangan sohaning yuzini toping.

 A. $log\_{4}e$ B. $log\_{3}e$ C. ln4 D. ln3

**№4.** y=x2-│2x-4│ funksiya grafigiga x=3 va x= -3 nuqtalarda o’tkazilgan urinmalar kesishish nuqtasi

 ordinatasini toping.

 A.-9 B. -5 C. -12 D. -6

**№5.** Agar f(x)=6+5tg22x bo’lsa, f ‘(π) ni toping.

 A.0 B. 2 C. 5 D. 1

**№6.** 2cosx+sinx=-2 tenglamaning [-π;π] kesmada nechta ildizi bor?

 A.1 B. 2 C. 3 D. $∅$

**№7.** Funksiyaning aniqlanish sohasini toping : y=logx-2(x2+7x-8)

 A.(2;3)U(3;+∞) B. (8;+∞) C. (-∞;-8)U(2;3)U(3;+∞) D. (-∞;-1)U(8;+∞)

**№8.** Hisoblang: cos2330+cos2450-sin2600+cos2570

 A. 0,5 B. 2,25 C. 0,75 D. 1,5

**№9.** f(x)=(sinx)cosx bo’lsa, f’(5π/6) ni toping.

 A. $(\frac{ln2+3}{2})∙\sqrt{2}^{\sqrt{3}}$ B. $(\frac{ln2-3}{2})∙\sqrt{2}^{\sqrt{3}}$ C. $(\frac{ln2+3}{2})∙\sqrt{2}^{\sqrt{2}}$ D. $(\frac{ln2+3}{2})∙\sqrt{3}^{\sqrt{3}}$

**№10.** $\int\_{2}^{3}\frac{5x}{x-1}dx $ integralni hisoblang. A. 5ln3e3 B. 5ln2e C. 5 D. 5ln4e

**№11.** Tomoni 4 ga teng bo’lgan teng tomonli uchburchak ichiga uchburchakning tomonlariga urinuvchi

 uchta teng doira joylashtirilgan. O’zaro urunuvchi doiralar yoylaridan hosil bo’lgan egri chiziqli

 uchburchakning yuzini toping. Javob: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**№12**.Bir burchagi 600 bo’lgan to’g’ri burchakli uchburchakka tomoni 6 ga teng romb shunday ichki

 chizilganki, 600 li burchak ular uchun umumiy, rombning barcha uchlari uchburchakning tomonlarida

 yotadi. Uchburchak yuzini toping. Javob: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**№13.** B,C,D,E nuqtalar aylanadagi, A esa aylanadan tashqaridagi nuqtalar. D nuqta AE kesmada, B esa AC

 kesmada yotadi. Agar AE=12 va AC=16 bo’lsa, BE vatar uzunligining CD vatar uzunligiga nisbatini

 toping. Javob: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**№14**. Tekislikdagi 1 m masofada yotgan nuqtadan ikkita teng og’ma o’tkazilgan. Agar og’malar

 perpendikulyar va tekislikka o’tkazilgan perpendikulyar bilan 600 ga teng burchaklar tashkil etsa,

 og’malarning asoslari orasidagi masofani toping. Javob:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**№15.** Voleybol jamoasi 9 ta o’yinchidan iborat. Boshlang’ich tarkibga 6 ta o’yinchini nechta usul bilan tanlab

 olish mumkin? Javob: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Test javoblari: IV-chorak**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Savol** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **Javob** | C | B | A | A | A | B | A | C | A | B |

**11**. $(2-\sqrt{3})(2\sqrt{3}-π)$ **12.** $\frac{81\sqrt{3}}{2}$ **13.** 3/4 **14.** $2\sqrt{2}$ **15**. 84