



Olimpiada topshiriqlari (II tuman bosqichi) Informatika 10-sinf

20.10.2023 11:00-12:30 <https://t.me/navoiyAKT>

1-qism: Har bir topshiriq 0,9 balldan baholanadi

1. To'g'ri keltirilgan ma'lumotni toping:

- A) 0,5 TB = 500 GB B) 8192 bit = 1 KB
C) 2000 MB = 2 GB D) 1024 PB = 1 ZB

2. Quyidagi dastur natijasini toping:

```
print("Informatika"[2:5])
```

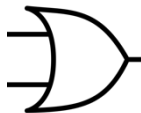
- A) Informatika B) orm
C) for D) inf

3. Faqat tashqi qurilmalar keltirilgan qatorni belgilang

- A) mikrofon, qattiq disk, proyektor
B) tezkor xotira, HDD xotira, SSD xotira
C) printer, monitor, dinamik va quloqchinlar
D) plotter, skaner, protsessor, veb kamera

4. Ushbu sxema qanday mantiqiy
amalni ifodalaydi?

- A) or B) nor
C) and D) nand



5. Yettilik sanoq sistemasidagi 1064 sonini o'nlik
sanoq sistemasiga o'tkazing.

- A) 374 B) 564
C) 438 D) 389

6. Quyidagi dastur natijasini toping:

```
n1, n2 = 2, 5
if n1 < n2:
    if n2 == n1: print("ABC")
    elif n2 % n1 == 1: print("CAB")
    else: print("ACB")
else:
    if n2 // n1 == 0: print("CBA")
    else: print("BCA")
```

- A) CBA B) CAB
C) BCA D) ACB

7. Birinchi shaxsiy kompyuter nechanchi yili ishlab
chiqilgan?

- A) 1946 B) 1977
C) 1975 D) 1973

8. MS Excel. Formula natijasini toping.

=ЛЕВСИМБ("Ozoda"; 4)

- A) Ozod B) Ozo
C) zoda D) oda

9. $p \rightarrow q$ ifoda yolg'on bo'lsa, p va q ni toping.

- A) $p=0, q=0$ B) $p=1, q=0$
C) $p=1, q=1$ D) $p=0, q=1$

10. CLI akronimi nimani anglatadi?

- A) Common Line Interface
B) Command Language Interface
C) Common Language Interface
D) Command Line Interface

2-qism: Har bir topshiriq 1,5 balldan baholanadi

11. Tezligi 102,4 Mbit/s bo'lgan tarmoq orqali 80
soniya davomida ma'lumot uzatildi. Jami necha
GB(Gigabayt) ma'lumot uzatilgan.

- A) 102,4 B) 1
C) 8192 D) 8

12. Quyidagi dastur natijasini toping:

```
x = {}
```

```
print(type(x))
```

- A) <class 'list'> B) <class 'dict'>
C) <class 'set'> D) <class 'tuple'>

13. MS Excel. Katakkalar aralash murojaat to'g'ri
ko'rsatilgan qatorni toping:

- A) BAZ\$82 B) \$A\$112
C) \$CDA\$57 D) CL19

14. Quyidagi dastur natijasini toping:

```
a = "Salom, dunyo!"
```

```
print(a.title())
```

- A) Salom, dunyo! B) SALOM, DUNYO!
C) Salom, Dunyo! D) salom, dunyo!

15. Kvadratning yuzi $194\sqrt{2}$ cm² bo'lsa, uning tomonini
uchlik sanoq sistemasida toping.

- A) 121 cm B) 1001 cm
C) 11 cm D) 22 cm

16. Quyidagi dastur natijasini toping:

```
x, k = 107, 85
```

```
while x > k: x -= 3
```

```
print(x)
```

- A) 83 B) 82
C) 84 D) 85

17. Quyidagi dastur natijasini toping:

```
print(101 & 22)
```

- A) 64 B) 4
C) 8 D) 1

18. MS Excel. Agar $A1 = -308$, $A2 = A1 + 12$ va $A2$
katakchadagi formula A50 katakchagacha nusxalansa,
qiymati musbat songa teng bo'lgan dastlabki
katakchanning manzilini aniqlang.

- A) A26 B) A28
C) A27 D) A29



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19. Videofayl kengaytmalari to'g'ri ko'rsatilgan qatorni tanlang:

- A) *.png; *.tiff B) *.psd; *.avi
C) *.mp4; *.mov D) *.mp4; *.ogg

20. Quyidagi dastur natijasini toping:
`print(bin(412))`

- A) 0b110011101 B) 0b110011100
C) 0b101011001 D) 0b110110100

3-qism: Har bir topshiriq 2,6 balldan baholanadi

21. O'lchami 1024×384 bo'lgan ekranning axborot hajmi 192 KB bo'lsa, 1 piksel uchun necha bitli kodlashdan foydalanilganini aniqlang.

22. Quyidagi dastur natijasini toping:
`a = {0, 3, 12, 5, 8, 43}`
`b = {-12, -1, 2, 7, 3}`
`print(a & b)`

23. Ifodani hisoblang: $101,11_2 + 3,375_{10} + A_{12}$.
Natijani ikkilik sanoq sistemasida yozing.

24. DVD diskning bitta sektoriga necha bayt ma'lumot yoziladi?

25. MS Excel. D3 katakdan F9 katakkacha bo'lgan to'g'ri to'rtburchakda musbat sonlar sonini sanaydigan formula yozing. Formulani '=' belgisi bilan boshlang.

26. Quyidagi dastur natijasini toping:
`a = 0b1001`
`print(a)`

27. Uchlik sanoq sistemasidagi 2212022102002 sonini to'qqizlik sanoq sistemasiga o'tkazing.

28. So'roq belgisining o'rniga qanday natural son qo'yilganda dastur natijasi 'Yes' bo'ladi? Mos keladigan barcha sonlarni yozing!

```
a = ?  
if a < 11 and 10/a%1 != 0:  
    for i in range(2,a):  
        if a % i == 0:  
            print("No")  
            break  
    else:  
        print("Yes")  
else: print("No")
```

29. Quyidagi dastur natijasini toping:

```
def f(x):  
    if x <= 3: return x  
    return 3 * f(x - 1) + 2 * f(x - 2)  
print(f(6))
```

30. A = "Konyuksiya bu mantiqiy ko'paytirish amali",
B = " $-12 > 0$ ", C = "1 Gbit bu 1024 Mbit" bo'lsa,
(A \rightarrow B) \vee (C \leftrightarrow (A \wedge \neg B)) ifodaning qiymatini toping.