



Olimpiada topshiriqlari (II tuman bosqichi) Informatika 9-sinf

20.10.2023 11:00-12:30

<https://t.me/navoiyAKT>

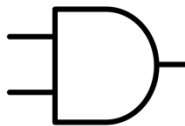
1-qism: Har bir topshiriq 0,9 balldan baholanadi

1. Modellarning vaqt omili qanday turlari bor?

- A) mavhum va moddiy B) statik va dinamik
C) abstrakt va fizik D) matematik va iqtisodiy

2. Ushbu sxema qanday mantiqiy
amalni ifodalaydi?

- A) or B) implicaton
C) and D) nand



3. 13A, 4B7, 12, 100 sonlar bo'la oladigan eng kichik
sanoq sistemasini toping.

- A) 13 B) 10
C) 12 D) 2

4. Quyidagi kod natijasini toping:

```
print(12**2**0+19//4-3%8)
```

- A) 13 B) 13.75
C) 2 D) 2.75

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

- A) 1024 MB = 1 KB B) 1048576 GB = 1 TB
C) 1048576 TB = 1 EB D) 1024 EB = 1 YB

6. Quyidagi dastur natijasini toping:

```
s = "mening_epochta@mail.com"  
print(s[:s.index('_')])
```

- A) mening B) epochta
C) mening_ D) epochta@gmail.com

7. Algoritmning xossalari to'g'ri keltirilgan qatorni
belgilang.

- A) Aniqlik, Izchillik B) Diskretlik, Mukammallik
C) Aniqlik, Xavfsizlik D) Ommaviylik, Diskretlik

8. Quyidagi dastur natijasini toping:

```
x = 2  
print(type(x) == 'int')
```

- A) True B) 2
C) False D) 'int'

9. Mantiqiy ayniyat to'g'ri ko'rsatilgan qatorni toping.

- A) $0 \rightarrow 1 = 1$ B) $1 \wedge 0 = 0$
C) $1 \leftrightarrow 1 = 0$ D) $0 \vee 0 = 1$

10. Ikkilik sanoq sistemasidagi 1100101 sonini o'nlik
sanoq sistemasiga o'tkazing.

- A) 65 B) 101
C) 109 D) 105

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

11. Tezligi 512 Mbit/s bo'lgan tarmoq orqali 2 daqiqa
davomida ma'lumot uzatildi. Jami necha
GB(Gigabayt) ma'lumot uzatilgan.

- A) 6400 B) 7,5
C) 400 D) 50

12. Python dasturlash tilida '*' amalini qanday
ma'lumot turlari bilan birgalikda ishlash mumkin?
int - butun son, str - satr, list - ro'yxat

1. int * int; 2. list * list; 3. list * int;
4. str * list; 5. int * str; 6. str * str.
A) 1, 2, 5, 6 B) 1, 3, 4
C) 1, 3, 5 D) 1, 4, 6

13. MS Excel. jadvalida D5:E8 ifoda nechta katakni
belgilaydi?

- A) 3 ta B) 4 ta
C) 8 ta D) 6 ta

14. Quyidagi dastur natijasini toping:

```
s, x = 0, 0  
for i in range(3, 15, 3):  
    s += i  
    x = x + 1  
print(s - x)
```

- A) 4 B) 40
C) 30 D) 26

15. 3 ta o'zgaruvchidan iborat mantiqiy ifodaning
rostlik jadvali nechta qatordan iborat?

- A) 8 ta B) 6 ta
C) 11 ta D) 16 ta

16. Quyidagi dastur natijasini toping:

```
s = 'Informatika'[:-1:2]  
print(s)
```

- A) Ifrai B) Informatik
C) Ifraia D) aiarfl

17. IDE akronimi nimani anglatadi?

- A) Integral Development Environment
B) Integral Development Entertainment
C) Integrated Development Entertainment
D) Integrated Development Environment



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18. Quyidagi dastur natijasini toping:

$a = 13$

$b = 2$

`print(a << 2 + 3 >> b)`

A) 32 B) 104

C) 26 D) 52

19. Pythonning rasmiy sahifasini toping:

A) <http://www.python.net>

B) <http://www.python.com>

C) <http://www.python.dev>

D) <http://www.python.org>

20. Kvadratning tomoni 20 cm, uning yuzini o'n oltilik sanoq sistemasida hisoblang.

A) 144 cm² B) 400 cm²

C) 90 cm² D) 80 cm²

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

21. Quyidagi dastur natijasini toping:

```
words = ['Informatika', 'qiziq', 'fan']  
print('@'.join(words))
```

22. 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 6/a % 1 != 0:
```

```
    for i in range(2,a):
```

```
        if a % i == 0:
```

```
            print("No")
```

```
            break
```

```
    else:
```

```
        print("Yes")
```

```
else: print("No")
```

23. To'rtlik sanoq sistemasidagi 310023120110 sonini o'n oltilik sanoq sistemasiga o'tkazing.

24. Quyidagi dastur natijasini toping:

$s = 10 - 8 * 22 // 3$

`print(~s)`

25. 64 belgili alifbodagi istalgan bitta belgini kodlash uchun nechta bit kerak bo'ladi?

26. Quyidagi dastur natijasini toping:

```
def f(x):
```

```
    if x <= 3: return x
```

```
    return f(x - 1) + 3 * f(x - 2)
```

```
print(f(7))
```

27. Qanday kalit so'z Python tilida funksiya e'lon qilish uchun ishlatiladi?

28. MS Excel. Formula natijasini toping:

=ЕСЛИ(2-3<3НАК(-12);

2*КОРЕНЬ(16)+СТЕПЕНЬ(25;1/2);

ДЛСТР(A"ABRACADABRA"));

29. $A = \text{Yolg'on}$, $B = \text{"Ikki xil turdagi translyatorlar mavjud"}$, $C = \text{"7}_{10} > 1111_2\text{"}$ bo'lsa, $(A \wedge B) \vee (\neg(A \wedge C) \leftrightarrow (\neg B \wedge A))$ ifodaning qiymatini toping.

30. O'nlik sanoq sistemasidagi 10,625 sonini ikkilik sanoq sistemasida yozing.