

Olimpiada topshiriqlari

Informatika 11

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

1. 1499 sonini Rim raqamida yozilishini aniqlang.

- A) MCDIX B) MCDIC
C) MCCCCXXXIX D) MCCCCXL

2. Dastur natijasini aniqlang:

```
a = []  
a+='info',  
print(a)
```

- A) 'info' B) ['info']
C) [] D) 'info'

3. Elektron hukumat nechta yo'nalishda faoliyat olib boradi?

- A) 6 ta B) 5 ta
C) 4 ta D) 3 ta

4. Windows muhitidagi Telegram ilovasida smayliklar jo'natish uchun qaysi tugmalar birikmasi bosiladi?

- A) Win + . B) Alt+S
C) Win + > D) Alt+Tab

5. Photoshop dasturida Ctrl+Shift+I tugmalari birga bosilsa nima sodir bo'ladi?

- A) Qatlam hosil bo'ladi B) Inversiya-teskari buyrug'i beriladi
C) O'lchamni o'zgartirish D) Tasvir to'liq belgilanadi

6. Dastur natijasini aniqlang:

```
a = 10  
b = 4  
print(a&b)
```

- A) 40 B) 0
C) True D) None

7. Dastur natijasini aniqlang:

```
a = 5  
print(a<<2)
```

- A) 1 B) 20
C) True D) None

8. Qaysi qatorda .tiff formatining kengaytmasi keltirilgan?

- A) Transfer Image File Format B) Transfer Interchange File Format
C) Tagged Image File Format D) Tag Imagine File Format

9. To'g'ri to'rtburchakning eni $1A_{16}$ ga, bo'yi 27_8 ga teng. To'g'ri to'rtburchak perimetrini ikkilik sanoq sistemasida toping.

- A) 1110010 B) 1010010
C) 1010100 D) 1100010

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10. Dastur natijasini toping:

```
a = '5.6'
```

```
print(int(a))
```

- A) 5 B) TypeError
C) 6 D) ValueError

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

11. Dastur natijasini toping:

```
a = ['matematika', 'informatika', 'kimyo', 'fizika']
```

```
print(a[True])
```

- A) matematika B) True
C) informatika D) AttributeError

12. Quyidagi ifodaning qiymatini o'nlik sanoq sistemasida hisoblang:

$$101,01_2 + 2A,48_{16} + 33,44_8$$

- A) 75,09375 B) 23,09733
C) 74,11275 D) 74,46287

13. Dastur natijasini toping:

```
a = 23
```

```
a>>=2
```

```
print(a)
```

- A) 11 B) 3
C) 21 D) 5

14. Dastur natijasini toping:

```
a = 7
```

```
a |= 4
```

```
print(a)
```

- A) 7 B) 11
C) 4 D) 3

15. Brend marketingdagi muhim tushunchadir. Brend bo'lmasangiz, mavjud emassiz. U holda siz kimsiz?
Siz oddiy tovarsiz.

Ushbu gaplar muallifini toping.

- A) Mark Sukkerberg B) Filip Kotler
C) Chriz Huhez D) Steve Chen

16. Dastur natijasini toping:

```
a = 543
```

```
b = -82
```

```
print(a//b)
```

- A) 7 B) -7
C) 6 D) -8

17. Ms Excelda qaysi funksiya shartni qanoatlantiruvchi blokning bo'sh bo'lmagan kataklar sonini sanaydi?

- A) ИСТИНА B) ЕСЛИ
C) СЧЁТЕСЛИ D) НОК

- A) 177.68.32.255 B) 255.255.254.5
C) 177.68.32.0 D) 255.255.255.0

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26. Dastur natijasini aniqlang.

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

- A) 64 B) 20
C) 46 D) 41

27. 7 ning 27 darajasi sakkizlik sanoq sistemasida qanday raqam bilan tugaydi?

- A) 1 B) 7
C) 3 D) 9

28. Dastur natijasini aniqlang

```
a = (5, 6, 7,5,7,4)  
x = 7  
b = list(a)  
for i in b:  
    if x == i:  
        b.remove(i)  
    b1= tuple(b)  
print(b1)
```

- A) (5,6,5,4) B) {5, 6,5, 4}
C) [5,6,5,4] D) 5, 6, 5, 4

29. 64 xil rangli, gorizontaliga 1240 ta nuqtali, vertikaliga 1024 ta nuqtali ekrandagi rasm axborot hajmini Kbaytlarda toping.

- A) 19 Kbayt B) 930 Kbayt
C) 840 Kbayt D) 7380 Kbayt

30. Tasvir 16 ta rang ko'lamiga ega. Tasvir o'lchami 10x15 sm.Ekran imkoniyati 1 dyumga 250 ta nuqta. Tasvirning axborot hajmini Kbaytlarda hisoblang.

- A) 36,6 Kbayt B) 228, 9 Kbayt
C) 732 Kbayt D) 5859 Kbayt