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

1. 1499 sonini Rim raqamida yozilishini aniqlang.
A) MCDIX   B) MCDIC
C) MCCCCXXXXIX   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

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

Fan olimpiadalari boʻyicha iqtidorli oʻquvchilar bilan ishlash departamenti

18. Scratch dasturining eng kichik fragmenti nima deb nomlanadi?
A) Sprayt   B) Sahna
C) Blok   D) Skript

19. 8 bit bilan necha xil rangni kodlash mumkin?
A) 3 xil   B) 256 xil
C) 8 xil   D) 128 xil

20. Pythonda fayldan matnni qatorma-qator o'qish uchun qaysi funksiyadan foydalanamiz?
A) write   B) writeline
C) read   D) readline

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

21. Dastur natijasini toping:
```
a = (5, 4, 3, 2, 1)
a[1] = 6
print(a)
```
A) (6, 4, 3, 2, 1)   B) TypeError
C) (5, 6, 3, 2, 1)   D) AttributeError

22. Dastur natijasini toping:
```
a = {'facebook', 'youtube', 'telegram'}
del a
print('a')
```
A) a   B) TypeError
C) 3   D) NameError

23. Dastur natijasini toping:
```
print(8**4//6+202//10*(12-8)%12)
```
A) 160   B) 690
C) 4520   D) 785

24. Dastur natijasini aniqlang:
```
a = '{0}{0}'.format(7, 17)
print(int(a))
```
A) 717   B) 77
C) 1717   D) 17

25. IP adres: 177.68.32.5
      Maska: 255.255.224.0
Berilgan ma'lumotlardan foydalanib tarmoq manzilini aniqlang.
A) 177.68.32.255   B) 255.255.254.5
C) 177.68.32.0   D) 255.255.255.0

Fan olimpiadalari bo'yicha iqtidorli o'quvchilar bilan ishlash departamenti

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. Tasvrning axborot hajmini Kbaytlarda hisoblang.
A) 36,6 Kbayt   B) 228, 9 Kbayt
C) 732 Kbayt   D) 5859 Kbayt

Fan olimpiadalari boʻyicha iqtidorli oʻquvchilar bilan ishlash departamenti