Министерство дошкольного и школьного образования Республики Узбекистан
2024-2025 учебный год
I четверть
Четвертные суммативные оценочные тестовые вопросы
11-класс
1-вариант

Ученик (ца) (Ф.И.О).. ....

1. (B 1 балл) Вычислите:

$$\lim_{x \to 2}(x^2 + 4x)$$

A) 22   B) 12   C) 4   D) 0

2. (B 1 балл) Найдите угловой коэффициент касательной к графику функции
$f(x) = x^2$ в точке $A(2; 4)$.

A) 4   B) 2   C) 1   D) 0,5

3. **(B 1 балл)** Найдите и сопоставьте производную каждой функции, используя правила вычисления производных.

Функции	Производные
I. $y = x^4$	A. $y = -\cos x$
	B. $y = \frac{a^x}{\ln a}$
II. $y = \sin x$	C. $y = \frac{x^5}{5}$
	D. $y = \cos x$
III. $y = a^x$	E. $y = a^x \cdot \ln a$
	F. $y = 4x^3$

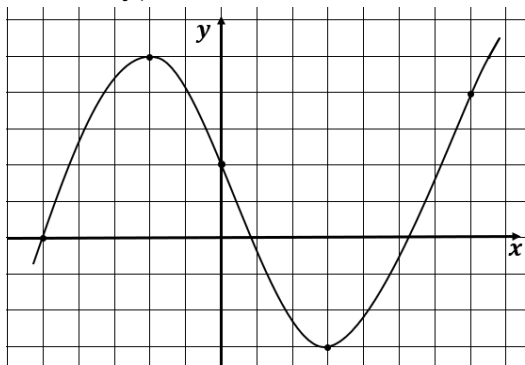A) I-C, II-A, III-B;   B) I-C, II-D, III-B;   C) I-F, II-A, III-E;   D) I-F, II-D, III-E;

4. (Q 4 балла) Вычислите:

$$\lim_{x \to 3}\frac{x^2 - 5x + 6}{x - 3}$$

A) 0   B) 2   C) 1   D) нельзя вычислить

5. (Q 4 балла) Используя график функции $f(x)$, показанный на рисунке, определите, верны или ложны следующие утверждения. (Возьмите одну клетку за одну единицу).

№	Утверждения	верно	неверно
1	$f'(-3) > 0$		
2	$f'(-1) < 0$		
3	$f'(2) < 0$		

A) неверно, неверно, неверно   B) верно, верно, неверно

C) верно, верно, верно   D) верно, неверно, неверно

6. (Q 4 балла) Найдите $f'(4)$ для функции $f(x) = \frac{x+3}{x+2}$.

A) $\frac{1}{36}$ B) $-\frac{1}{36}$ C) $-\frac{1}{9}$ D) $\frac{1}{9}$

7. (Q 4 балла) Напишите уравнение касательной к графику функции $f(x) = 2x^2 + 4x - 5$, параллельной прямой $y = 8x - 2$.

A) $y = 8x - 7$ B) $y = 8x - 5$ C) $y = 8x - 4$ D) $y = 8x + 7$

8. (Q 4 балла) Найдите x_0, если касательные к графикам функций $f(x) = 3x^2 - 5x$ и $g(x) = 7x + 6$ проходящие через точку x_0 параллельны.

A) $x_0 = 2$ B) $x_0 = -2$ C) $x_0 = -1$ D) $x_0 = 1$

9. (Q 4 балла) Найдите промежуток возрастания функции.
$$f(x) = -2x^2 + 18x + 7$$
A) $-4{,}5 < x < 0$ B) $x > 4{,}5$ C) $0 < x < 4{,}5$ D) $x < 4{,}5$

10. (Q 4 балла) Найдите сумму стационарных точек функции.
$$y = x^3 + 2x^2 - x + 3$$
A) нет стационарных точек   B) $\frac{4}{3}$ C) $\frac{-8}{3}$ D) $\frac{-4}{3}$

11. (Q 4 балла) В течение времени $t \in [0; 12]$ минут в воздушный шар подаётся воздух объёма $V(t) = t^3 + 10t^2 + 5t + 15$ (m³). Найдите скорость подачи воздуха в момент времени $t = 7$ минут.

A) $298 \frac{m^3}{\text{минут}}$ B) $262 \frac{m^3}{\text{минут}}$ C) $292 \frac{m^3}{\text{минут}}$ D) $192 \frac{m^3}{\text{минут}}$

12. (M 5 баллов) Используя равенство, найдите $f(x)$.
$$3f(x) + 4f\left(\frac{1}{x}\right) = x$$
A) $f(x) = \frac{4+3x^2}{7x}$ B) $f(x) = \frac{4-3x^2}{7x}$ C) $f(x) = \frac{3-4x^2}{7x}$ D) $f(x) = \frac{3+4x^2}{7x}$

13. (В 4 балла) В пространстве построена декартова система координат и в ней заданы точки $A(0; 0; -5)$, $B(2; -4; 0)$ и $C(1; 2; 3)$. Основываясь на расположении этих точек, определите, верны или неверны следующие утверждения.

№	Утверждения	верно	неверно
1	Точка A лежит на оси Oz		
2	Точка B лежит на плоскости Oxy		
3	Точка C лежит в 1-октанте		

A) верно, верно, неверно;   B) верно, верно, верно;
C) неверно, неверно, неверно;   D) верно, неверно, неверно;

14. (В 4 балла) В какую точку перейдёт точка $A(2; 2; 2)$ при параллельном переносе на вектор $\vec{p}(1; 1; -1)$?

A) $B(-1; -1; -3)$ B) $B(1; 1; 3)$ C) $B(3; 3; 1)$ D) $B(-3; -3; -1)$

15. (Q 5,2 балла) Найдите растояние между точками $A(2; 0; -4)$ и $B(3; 4; 0)$.

A) $\sqrt{33}$ B) $\sqrt{31}$ C) $\sqrt{32}$ D) $\sqrt{35}$

16. (Q 5,2 балла) Даны векторы $\vec{a}(-2; 3; -4)$ и $\vec{b}(2; -5; 3)$. Найдите координаты вектора $\vec{c} = 2\vec{a} + \vec{b}$.

A) $\vec{c}(-2; 1; -5)$ B) $\vec{c}(2; -1; 5)$ C) $\vec{c}(-2; -1; -5)$ D) $\vec{c}(-2; 5; -4)$

17. (Q 5,2 балла) Даны векторы $(4; n; -9)$ и $(-6; 7; m)$. При каких значениях m и n эти векторы будут коллинеарны?

A) $m = \frac{27}{2}; n = \frac{14}{3}$ B) $m = -\frac{27}{2}; n = -\frac{14}{3}$

C) $m = -\frac{27}{2}; n = \frac{14}{3}$ D) $m = \frac{27}{2}; n = -\frac{14}{3}$

18. (Q 5,2 балла) Найдите скалярное произведение векторов $\vec{a}(2; -3; 4)$ и $\vec{b}(-2; -3; 4)$.

A) 28   B) 21   C) 16   D) -19

19. (Q 5,2 балла) Найдите косинус угла между векторами $\vec{a} = 2\vec{\imath} - 2\vec{\jmath} + 4\vec{k}$ и $\vec{b} = -\vec{\imath} + \vec{\jmath} + 2\vec{k}$.

A) $\frac{1}{4}$ B) $\frac{1}{5}$ C) $\frac{1}{3}$ D) $\frac{3}{4}$

20. (М 6 баллов) Найдите длину медианы BD треугольника с вершинами в точках $A(2; 3; -6)$, $B(-4; 6; 4)$ и $C(4; 3; 8)$.

A) $\sqrt{67}$ B) $\sqrt{71}$ C) $\sqrt{39}$ D) $\sqrt{85}\backslash$

21. (B 2 ball)   Ikki yoki undan ortiq so'zning ma'no va grammatik jihatdan bog'lanishi ……. ………. deyiladi. Nuqtalar o'rniga to'g'ri javobni toping.

A) Gap bo'laklari   B) So'z birikmasi
C) Nutq tovushlari   D) So'z

22. (B 2 ball)   Mustaqil so'zlarning grammatik o'zaro shaxs va sonda moslashishi ……….. deyiladi. Nuqtalar o'rniga mos javobni tanlang.

A) Bitishuv   B) Boshqaruv
C) Moslashuv   D) So'z

23. (B 2 ball) A.Navoiy "Foniy" taxallusini qaysi tildagi g'azallari uchun ishlatgan?

A)   Turk   B) Arab

C)   Tojik   D) Fors

24. (B 2 ball) Kesimi buyruq maylidagi fe'l bilan ifodalanib, buyurish, da'vat qilish ma'nolarini bildirgan gaplar………………

A) Buyruq gaplar   B) So'roq gaplar

C) Darak gaplar   D) Istak gaplar

25. (Q 2,8 ball) Maqollarni moslashtiring.

1. Kasalini yashirsang,	a. odam qadrini mehnat oshirar
2. Hunarni asrabon netgumdir oxir,	b. bilimli xor bo'lmas
3. Daryo suvini bahor toshirar	c. manmanga zavol
4. Kamtarga kamol,	d. olib tufroqqamu ketgumdir oxir
5. Hunarli kam bo'lmas,	e. isitmasi oshkor qiladi.

A)   1-b, 2-d, 3-a, 4-c, 5-e   B)   1-e, 2-d, 3-a, 4-c, 5-b

C)   1-d, 2-e, 3-a, 4-c, 5-b   D)   1-c, 2-d, 3-a, 4-e, 5-b

26. (Q 2,8 ball) Koinotdagi barcha narsa muayyan va ma'lum qonunga bo'ysunadi. Ushbu gapda olmosh qaysi turdagi so'z birikmasi tarkibida kelgan?

A) boshqaruv   B) bitishuv

C) moslashuv   D) olmosh qo'llanmagan

27. (Q 2,8 ball) Qani, oldimga tushib ko'r-chi! Ushbu jumla mazmuniga ko'ra qanday gap?

A)   So'roq gap   B) Buyruq gap

C)   Ritorik so'roq gap   D) Darak gap

28. (Q 2,8 ball) Darak gaplar berilgan qatorni toping.

A) Eh, bu go'zal manzaraga bir qarang!

B) Ajoyib joylar ekan-a?-dedi Rustam Qudratga qarab.

C) Tarix! Tarixni ko'zdan kechirmadingizmi?

D) Mamlakatimizda ta'lim sohasida katta islohotlar amalga oshirildi.

29. (Q 2,8 ball) Qaysi gap tarkibida ibora bilan ifodalangan bo'lak mavjud?

A)   Dam olish kuni sayohatga boramiz.

B)   Kishining go'zalligi uning tilidan bilinadi

C)   Egri daraxtning soyasi ham egri bo'ladi.

D)   U sahnaga chiqishidan oldin o'zini qo'lga oldi.

30. (Q 2,8 ball)   Qaysi qatorda frazeologik iboralar va ularning ma'nolari muvofiq tartibda berilgan?

1.   Oyog'i tortmadi; 2. Oyog'idan tortdi; 3. Oyog'ini tortdi.

 a) umuman bormaydigan bo'ldi

 b) borishga ko'ngli bo'lmadi;

 c) yomon ishga jalb qildi

A)   1-b,2-a,3-c   B)   1-a, 2-d, 3-b

C)   1-b, 2-c,3-a   D)   1-d, 2-b, 3-a

31. (Q 2,8 ball) Bu yoqda Jamol Bo'riboyevday og'aynilari bo'lgan, ……….. …….
……. unaqa odamlardan hayiqmoq kerak. Nuqtalar o'rniga mos iborani qo'ying.
A) Yulduzni benarvon uradigan   B) Kulgusi qistab turgan
C) Xatoga yo'l qo'ymaydigan   D) Holi joniga qo'ymaydigan

32. (Q 2,8 ball) Matnni kengaytirish ……………..
1. qo'shimcha ma'lumotlar bilan to'ldiriladi.
2. reja asosida yoki rejasiz amalga oshirilishi mumkin.
3. qo'shma gaplar sodda gaplarga almashtiriladi
4. ko'chirma gaplarni o'zlashtirma gaplarga almashtiriladi.
A) 1,2
B) 2,3
C) 1,2,3,4
D) 3,4

33. (Q 2,8 ball) Moslashtiring.

1. Darak gap	a. His-hayajonni ifodalab, kuchli ohang bilan aytiladigan gaplar.
2. Buyruq gap	b. Xabar mazmunini bildiradi.
3. So'roq gap	c. Buyruq-xitobni bildirib, buyurish, istak, xohish ohangi bilan aytiladi.
4. Undov gap	d. So'zlovchiga noma'lum narsa, voqea-hodisa haqida so'roqni bildiradi

A)   1-b,2-a,3-d,4-c   B)   1-a,2-c,3-d,4-b
C)   1-b,2-c,3-d,4-a   D)   1-d,2-c,3-b,4-a

34. (Q 2,8 ball) Qaysi bandda ma'nodosh frazeologizmlar berilgan?
A) ko'ksini yerga bermoq, kuragi yerga tegmoq
B) anqoning urug'i, ko'zga dori
C) shaftoli qoqmoq, pashsha qo'rimoq
D) do'ppisi yarimta, ko'ngli yarim

35. (M 4 ball) Xush bu mahfulda tiriklik ulfat-u ahbob ila,
         O'ynashib gohi tabiatni, qilaylik chog'lar.
Ushbu «O'ynashib gohi tabiatni qilaylik chog'lar» misrasining mazmuni qaysi javobda to'g'ri berilgan?
A) Tabiat qo'ynida o'ynashib bir birimizning tabiatimizni chog' qilaylik;
B) A va B.
C) Bunday umrning betakror damlarini ko'paytiraylik;
D) O'zimizning sho'x-u shodon o'yinlarimiz bilan tabiatni yanada ko'rkam qilaylik;

36. (B 2 ball) Choose the correct answer.
My aunt gave me some jeans but they didn't fit, so I took them back to the shop and asked for a …. .
A)   exchange
B)   refund
C)   promotions
D)   receipt

37. (B 2 ball) Read the definition and write the correct adjective.

able to be trusted or believed

A) jealous
B) reliable
C) annoying
D) easygoing

38. (B 2 ball) Choose the correct answer.

Are you a good …? There's a place where we can jump into the river near here.

A) sailor
B) spectator
C) cyclist
D) swimmer

39. (B 2 ball) Choose the correct answer.

Lots of people agree it's a good idea to … glass, paper and plastic.

A) decorate
B) mend
C) rebuild
D) recycle

40. (Q 2.8 ball) Choose the correct sentence:

A) She enjoys to read books.
B) She enjoys read books.
C) She enjoys reading books.
D) She enjoys to reading books.

41. (Q 2.8 ball) Choose the correct sentence:

A) They decided to go to the park.
B) They decided go to the park.
C) They decided to going to the park.
D) They decided going to the park.

42. (Q 2.8 ball) Choose the correct answer.

My sister _____ to Bukhara tomorrow because her best friend _____ married on Saturday.

A) is going / is getting
B) go / gets
C) goes / get
D) are going / are getting

43. (Q 2.8 ball) Choose the correct answer.

A: Why _____ you _____ your homework?

B: Because I _____ a bad headache.

A)   don't ... do / am having
B)   doesn't ... do/has
C)   aren't ... doing / have
D)   isn't ... doing / have

44. (Q 2.8 ball) Choose the correct sentence:

A)   While I cooked, the phone rang.
B)   While I was cooking, the phone rang.
C)   While I was cooked, the phone rang.
D)   While I cook, the phone rang.

45. (Q 2.8 ball) Choose the correct sentence:

A)   He was watching TV when I was arriving.
B)   He watched TV when I was arriving.
C)   He watched TV when I arrive.
D)   He was watching TV when I arrived.

46. (Q 2.8 ball) Choose the correct answer.

When I was a child, I _____ play outside every day.

A)   was used to
B)   use to
C)   used to
D)   am used to

47. (Q 2.8 ball) Choose the correct answer.

She _____ work at a bank before she started her own business.

A)   used to
B)   is used to
C)   use to
D)   was used to

48. (Q 2.8 ball) Choose the correct answer.

You _____ finish your homework before going out to play.

A)   have
B)   should have
C)   must
D)   can to

49. (Q 2.8 ball) Choose the correct answer.

She _____ take the medicine every day to stay healthy.

A) ought

B) has to

C) should have

D) might

50. (M 4 ball) Choose the CORRECT statement.

Friendship in the 21st century.

Scientist Dr Russell Carley is interested in finding out about friendship in the 21st century. He started by trying to answer the question: Can online friends be as good as face-to-face friends?

Surprisingly, he found that the answer is a big YES! A friend is someone who gives you honest advice and support, and, of course, an online friend can do that. Online friends can also be close friends. Our real friends can't be with us 24 hours a day, but the online community never sleeps! When you feel anxious in the middle of the night, there's always someone who can give you support through a text, a message or just a 'like'. Having online friends is good for your memory, too. There's a lot of information to check every day. When you see an interesting holiday picture, you make a note in your mind to ask your pal about it next time they're online, or when you're together in person.

Also, you can find friends who have the same interests as you more easily. If you're interested in Japanese comics, there will be plenty of people who love that too. For most of us, the online community provides support, it builds our confidence, and we feel loved.

So, if online friends are so good, do we need real friends? Interestingly, Dr Carley's research suggests that we do. As he points out, with your real friends, you are in the same physical space; you create memories together as you experience and enjoy doing things with each other. You have to be more responsible with your real friends, as you can't just 'unfriend' them if you disagree with them!

A) You can easily 'unfriend' real friends if you disagree with them.

B) Dr. Carley's research suggests that we do not need real friends if we have online friends.

C) The online community does not help in building confidence or feeling loved.

D) With real friends, you create memories together by experiencing and enjoying activities.