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O'ZBEKISTON RESPUBLIKASI VAZIRLAR MAHKAMASI
DAVLAT TEST MARKAZI

REPITISION TEST TOPSHIRUVCHILAR UCHUN

SAVOLLAR KITOBI

ABITURIYENT: _____ _____

F.I.O.   Imzo

ABITURIYENT DIQQATIGA!

Test topshiriqlarini yechishdan avval savollar kitobini varaqlab, unda har bir fan bo'yicha 36 ta savol mavjudligini tekshiring. Agar savollar soni kamligi aniqlansa yoki savollar savollar kitobi raqami bilan javoblar varag'i raqami bir xil bo'lmasa, darhol auditoriya rahbariga ma'lum qiling.

Savollar kitobida abituriyentning familiyasi, ismi, otasining ismi xato to'ldirilgan yoki to'ldirilmagan, va imzosi qo'yilmagan hollarda e'tirozi ko'rib chiqilmaydi.

Kitob tipi: **55 (636624)**

FANLAR:

Blok 1: Matematika (informatika bilan)
Blok 2: Fizika
Blok 3: Ingliz tili

Savollar kitobi raqami: **1000046**

Toshkent – 2014

MATEMATIKA (INFORMATIKA BILAN)

1. $y = \dfrac{2x-1}{\sqrt{x^2-5x+6}}$ funksiyaning aniqlanish sohasini toping.

    A) $(0;\ 2)$

    B) $(-2;\ 3)$

    C) $(-\infty;\ 2) \cup (3;\ \infty)$

    D) $(-\infty;\ 3)$

2. ABC uchburchakda $a=3$; $b=5$; $\angle C=60°$ bo'lsa, c ni toping.

    A) $\sqrt{17}$ B) $\sqrt{21}$ C) $\sqrt{19}$ D) $\sqrt{23}$

3. $x^2 + 2\sqrt{x^2+6x+13} = -6x-5$ tenglama ildizlarining yig'indisini toping.

    A) *-2*   B) *-3*   C) *-6*   D) *-13*

4. Agar uch xonali sondan 6 ni ayirsak, ayirma 7 ga bo'linadi, 7 ni ayirsak, ayirma 8 ga bo'linadi, 8 ni ayirsak, ayirma 9 ga bo'linadi. Bu sonni toping.

    A) *936*   B) *503*   C) *143*   D) *167*

5. $\dfrac{sin1° \cdot sin2° \cdot \ldots \cdot sin45°}{cos46° \cdot cos47° \cdot \ldots \cdot cos89°}$ ni hisoblang.

    A) $\dfrac{1}{2}$ B) *1*   C) $\dfrac{\sqrt{2}}{2}$ D) $\dfrac{\sqrt{3}}{2}$

6. m dan katta bo'lmagan juft natural sonlarning yig'indisi x, m dan katta bo'lmagan, lekin 10 dan katta bo'lgan juft sonlarning yig'indisi y hamda $x + y = 810$ bo'lsa, m ning barcha qiymatlari yig'indisini toping.

    A) *210*   B) *83*   C) *420*   D) *81*

7. Teng yonli trapetsiyaning diagonali 10 ga teng va u asos bilan 60° li burchak tashkil etadi. Trapetsiyaning o'rta chizig'ini toping.

    A) *5*   B) *4*   C) $\dfrac{5\sqrt{3}}{2}$ D) *6*

8. $3ax - 6x^2 - 8 + x^3$ ko'phad to'la kub bo'ladigan barcha a larni toping.

    A) *-2*   B) *2*   C) *-4*   D) *4*

9. $\int xe^{-3x^2}dx$ ni hisoblang.

    A) $-\dfrac{1}{6}e^{-3x^2}+c$ B) $\dfrac{1}{6}e^{-3x}+c$

    C) $\dfrac{1}{6}e^{-3x^2}+c$ D) $-\dfrac{1}{6}e^{3x^2}+c$

10. Radiusi 1 ga teng bo'lgan aylana uchta yoyga bo'lingan. Ularga mos markaziy burchaklari 1, 2 va 3 sonlariga proporsional bo'lsa, yoylardan eng kattasining uzunligini toping.

    A) $\dfrac{2\pi}{3}$ B) $\dfrac{3\pi}{2}$ C) $\dfrac{\pi}{3}$ D) π

11. Aylananing uzunligi shu aylananing 40° li yoyi uzunligidan necha foiz ko'p?

    A) *900*   B) *700*   C) *800*   D) *600*

12. $(x-1)^2(x^2-2x) = 12$ tenglamaning haqiqiy ildizlari yig'indisini toping.

    A) *2*   B) *4*   C) *0*   D) *3*

13. Cheksiz kamayuvchi ishorasi almashinuvchi geometrik progressiyada ketma-ket kelgan uchta hadning yig'indisi -21 ga, ko'paytmasi 729 ga teng bo'lsa, shu sonlarni toping.

    A) *27; -9; 3*   B) *-3; 9; -27*   C) *-27; 9; -3*
    D) *-28; 14; -7*

14. Idish to'g'ri burchakli parallelepiped shaklida bo'lib, uning bo'yi 60 sm, eni 45 sm va balandligi 47 sm ga teng. Agar idishdagi suv sathi 40 sm balandlikda bo'lsa, unda necha litr suv bor?

    A) *108*   B) *115*   C) *135*   D) *106*

15. Parallelogrammning uchta ketma-ket $A(-3;\ -2;\ 0)$, $B(3;\ -3;\ 1)$ va $C(5;\ 0;\ 2)$ uchlari berilgan. $\vec{AC}$ va $\vec{BD}$ vektorlar orasidagi burchakni toping.

    A) $135°$ B) $60°$ C) $150°$ D) $120°$

16. Hosila uchun qaysi munosabatlar o'rinli?
    1) $(\ln \sin x)' = ctgx$;
    2) $\left(\cos \dfrac{1}{x}\right)' = -\dfrac{1}{x^2}\sin\dfrac{1}{x}$;
    3) $(\log_4 5x)' = \dfrac{1}{5x\ln 4}$;
    4) $\left(2^{\sqrt{x}}\right)' = \dfrac{2^{\sqrt{x}}\ln 2}{2\sqrt{x}}$

    A) *1, 4*   B) *3, 4*   C) *1, 2*   D) *1, 3*

17. Agar arifmetik progressiyada $a_1 + a_2 + a_3 = 15$ va $a_1 a_2 a_3 = 80$ bo'lsa, uning ayirmasini toping.

    A) *4*   B) *2*   C) *5*   D) *±3*

18. Uzunligi 17 ga teng bo'lgan kesmaning uchlari tekislikdan 4 va 12 ga teng uzoqlikda yotishi ma'lum bo'lsa, kesmaning tekislikdagi proyeksiyasi uzunligini toping.

    A) *15*   B) *16*   C) *10*   D) *12*

19. $f(x) = log_4 x + 4e^{2x}$, $f'(x)-?$

     A) $\dfrac{1}{ln4} + 8e^x$ B) $xln4 + 8e^x$ C) $\dfrac{1}{xln4} + 8e^{2x}$
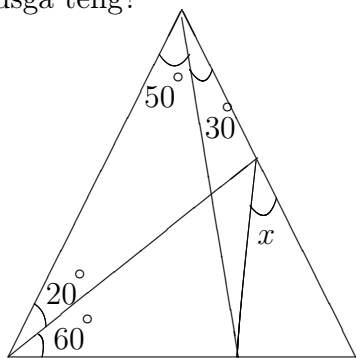
     D) $\dfrac{1}{x} + 8e^{2x}$

20. Xo'jayin bir kishini bir yilga yollab, unga 12 so'm pul va bir chakmon bermoqchi bo'libdi, lekin ishchi 7 oy ishlagandan keyin xo'jayin unga 5 so'm pul va bir chakmon beribdi. Chakmon necha so'm bo'lgan.

     A) *4,8*   B) *5,5*   C) *5,2*   D) *5*

21. Aylanaga tashqi chizilgan muntazam oltiburchakning tomoni $2\sqrt{3}$ sm bo'lsa, shu aylanaga ichki chizilgan kvadratning yuzini (sm²) hisoblang.

     A) *18*   B) *16*   C) *12*   D) *20*

22. Quyidagi rasmda berilganlarga ko'ra x necha gradusga teng?

     A) *40*   B) *45*   C) *50*   D) *30*

23. $(2+\dfrac{2}{3}-\dfrac{1}{2})\cdot6+(\dfrac{8}{21}+\dfrac{1}{3}-\dfrac{5}{7})\cdot21+(\dfrac{3}{14}-\dfrac{2}{7}+\dfrac{1}{2})\cdot14$ ni hisoblang.

     A) *15*   B) *20*   C) *18*   D) *19*

24. $a = \sqrt{5} + \sqrt{6}$, $b = \sqrt{3} + \sqrt{8}$, $c = 2 + \sqrt{7}$ sonlarni o'sish tartibida joylashtiring.

     A) $b < c < a$ B) $c < b < a$ C) $b < a < c$

     D) $a < b < c$

25. $(x^3 + 4x^2 + 4x) \cdot \sqrt{25 - x^2} \geq 0$ tengsizlikning butun sonlardan iborat yechimlari yig'indisini toping.

     A) *12*   B) *10*   C) *8*   D) *6*

26. $\dfrac{(2p-q)^2 + 2q^2 - 3pq}{2p^{-1} + q^2} : \dfrac{4p^2 - 3pq}{2 + pq^2}$ ifodani soddalashtiring va uning son qiymatini toping. $p = 0{,}78$, $q = 7/25$

     A) *-1*   B) *1*   C) *0,5*   D) *0,25*

27. Muntazam o'nikkiburchakka tashqi chizilgan aylana radiusi $\sqrt{2 + \sqrt{3}}$ ga teng bo'lsa, uning tomonini toping.

     A) $\sqrt{2 + \sqrt{3}}$ B) $\sqrt{3}$ C) *2*   D) *1*

28. x, y butun sonlar uchun $-12 \leq x < 13$, $-9 < y \leq 6$ va $x + y \neq 0$ bo'lsa, $\dfrac{x - y}{x + y}$ ning eng katta qiymatini toping.

     A) *17*   B) *14*   C) *20*   D) *18*

29. $y = \ln||x| + 1|$ funksiyaning aniqlanish sohasini toping.

     A) $(1; \infty)$

     B) $(-\infty; 0)$

     C) $(0; \infty)$

     D) $(-\infty; \infty)$

30. To'g'ri to'rtburchakning diagonali 17 sm, tomonlaridan biri esa 8 sm. To'g'ri to'rtburchakning yuzini (sm²) toping.

     A) *120*   B) *80*   C) *140*   D) *160*

31. Agar kitobdagi axborot hajmi 7 Kbayt bo'lsa, uni nechta "Axborot" so'zi bilan almashtirish mumkin?

     A) *1024*   B) *2048*   C) *2000*   D) *14336*

32. Sakkizlik sanoq sistemasidan ikkilik sanoq sistemasiga o'tkazishni bajaring: $567_8 \rightarrow x_2$

     A) 10110101_2 B) 101110111_2 C) 1111101_2

     D) 11101110_2

33. Tasvirli fayllarning kengaytmasi keltirilgan qatorni aniqlang.

     A) *.bmp, .gif*   B) *.com, .exe*   C) *.bas, .pas*

     D) *.xls, .doc*

34. MS Excel 2003 da A1 dan A10 gacha bo'lgan katakchalardagi qiymatlarni yig'indisini hisoblash formulasini aniqlang.

     A) *CYMM(A1:A10)*   B) *=summa(A1:A10)*

     C) *A1+A10*   D) *=CYMM(A1:A10)*

35. Elektron pochta manziliga oid mulohazalardan xatosini aniqlang.

     A) *E-mail manzilida @ belgisi ishtirok etmaydi*

     B) *E-mail manzilida probel (bo'shliq) belgisi ishtirok etmaydi*

     C) *E-mail manzilida raqamlar ishtirok etadi*

     D) *E-mail manzilida lotin harflari ishtirok etadi*

36. Paskal dasturi lavhasidagi hisob natijasini aniqlang.
    begin a:=12; b:=14; c:=10; if(a>b) or (b>c) then y:=a+b-c else y:=a-b+c; writeln(y); end.
    A) *8*   B) *6*   C) *16*   D) *14*

FIZIKA

1. Garmonik tebranishlarining amplitudasi 5 sm, boshlang'ich fazasi $\frac{3\pi}{2}$ ga teng. Tebranishlar soni minutiga 120 marta tebranadi. Garmonik tebranishlarning tenglamasini ko'rsating.

    A) $x = 0,05cos\left(4\pi t + \frac{3\pi}{2}\right)$

    B) $x = 5sin\left(4\pi t + \frac{\pi}{2}\right)$

    C) $x = 0,05sin4\pi t$

    D) $x = 5cos\left(2\pi t + \frac{3\pi}{2}\right)$

2. Aylanma harakat uchun dinamikaning asosiy qonuni formulasini belgilang.

    A) $\vec{\mu} = I\vec{\beta}$
    B) $\Delta Fr = \Delta mr^2\beta$
    C) $M \cdot \Delta t = I\vec{\omega} - I\vec{\omega_0}$
    D) $I\omega$

3. Suyuqlikning idish devoriga bosim kuchi F idish tubiga bo'lgan bosim kuchiga teng bo'lishi uchun R radiusli silindrik idishga qanday balandlik H gacha suv qiyish kerak?
    A) $R = 2H$ B) $R = H/2$ C) $R = 4H$
    D) $R = H$

4. Jism h balandlikdan erkin tushmoqda. Balandlikning oxirgi 3/4 qismidagi o'rtacha tezligi, boshlang'ich 1/4 qismidagi o'rtacha tezligidan necha marta farq qiladi?
    A) *8 marta katta*   B) *3 marta katta*
    C) *9 marta katta*   D) *6 marta kichik*

5. Yopiq idishga to'yingan bug' qamalgan bo'lib bosimi 10 kPa. Agar bosimni 2 marta oshirib, hajmini 2 marta kamaytirsak to'yingan suv bug'larining zichligi qanday o'zgaradi? Jarayon izotermik.
    A) *o'zgarmaydi*
    B) *2 marta oshadi*
    C) *haroratning qandayligicha bog'liq*
    D) *2 marta kamayadi*

6. Prujinaga birinchi jism osilganda prujina 2 sm ga cho'zildi, ikkinchi jism osilganda yesa 3 sm ga cho'zildi. Ikkala jism birgalikda osilganda prujina qancha (sm) cho'ziladi?
    A) *2,0*   B) *2,5*   C) *1,2*   D) *5,0*

7. Elektr dvigatelga ulangan iste'molchidan 0,5 A tok o'tmoqda, undagi kuchlanish 20 V. Dvigatel 1 soatda qancha ish (kJ) bajaradi? Dvigatelning FIK 80% ga teng.
    A) *28,8*   B) *30*   C) *34*   D) *32,5*

8. v tezlik bilan borayotgan odam ko'cha chiroqlari tagidan o'tib bormoqda, chiroqlar yerdan H balandlikka osilgan. Odamning balandligi h ga teng bo'lsa, uning yerdagi soyasining uchki qismi qanday tezlikda harakatlanadi?
    A) $\frac{H - h}{H}v$ B) $\frac{H + h}{H}v$ C) v D) $\frac{H}{H - h}v$

9. Yerdan Oygacha bo'lgan masofa 384 ming km bo'lsa, Oydan yorug'lik nuri qancha vaqtda (s) yetib keladi?
    A) *1,4*   B) *1,2*   C) *1,5*   D) *1,3*

10. Atom holatidagi kislorod zarrachalarining $138°C$ dagi o'rtacha kvadratik tezliklarini (m/s) aniqlang. M_{atom}=16 g/mol, R=8,3 $\frac{J}{K \cdot mol}$
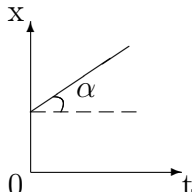   A) *840*   B) *540*   C) *650*   D) *800*

11. Jismning kinetik energiyasi 1 J, impulsi 1 kg·m/s bo'lsa, uning massasi (kg) qancha?
    A) *0,25*   B) *2*   C) *1*   D) *0,5*

12. Bosim 100 Pa, molekulalari konsentratsiyasi 10^{25} m^{-3} bo'lganda gazning temperaturasini (K) toping.
    A) *500*   B) *725*   C) *650*   D) *800*

13. Zanjirga R, L, C elementlar ketma-ket ulangan va zanjirga $U cos(\omega t + \varphi)$ o'zgaruvchan kuchlanish berilgan. Agar chastota rezonans chastota ekanligi ma'lum bo'lsa, zanjirdan o'tuvchi tok quvvatini toping.
A) $U^2 RL/2C$ B) $U^2 R$ C) $U^2 R/2$
D) $U^2 R/2\omega C$

14. Induksiya vektorining moduli 0,8 T, yo'nalishi gorizontal bo'lgan bir jinsli magnit maydonida uzunligi 25 sm, massasi 16 g bo'lgan gorizontal sim muallaq turishi uchun simning ko'ndalang kesim yuzasi orqali har sekundda nechta elektron oqib o'tishi kerak? $g=10$ m/s^2.
A) $1,2 \cdot 10^{17}$ B) $5 \cdot 10^{18}$ C) $2,5 \cdot 10^{18}$
D) $2,5 \cdot 10^{17}$

15. O'zgaruvchan tok o'tayotgan zanjir qismidagi kuchlanishi vaqt o'tish bilan $U = U_0 sin(\omega t + \pi/6)$ qonun bo'yicha o'zgaradi. Vaqtning $T/12$ qiymatida kuchlanishning oniy qiymati 10 V ga teng. Kuchlanishning amplituda qiymatini (V) toping.
A) $11,54$ B) 11 C) $11,1$ D) 12

16. Tezligi $1,9 \cdot 10^7$ m/s bo'lgan α-zarra oltin atomi yadrosi yo'nalishida harakatlanib, yadroga qanday eng kichik masofagacha (m) yaqinlashishi mumkin? α-zarraning massasi $6,6 \cdot 10^{-27}$ kg, zaryadi $1,3 \cdot 10^{-17}$ Kl.
A) $4,9 \cdot 10^{-14}$ B) $4 \cdot 10^{-14}$ C) $3,1 \cdot 10^{-14}$
D) $3,8 \cdot 10^{-14}$

17. O'zgarmas tok manbaiga avval 9 Ω qarshilik so'ngra 4 Ω qarshilik ulandi. Har ikkala holda birday vaqt ichida qarshiliklarda bir xil miqdorda issiqlik ajraladi. Manbaning ichki qarshiligini (Ω) aniqlang.
A) 3 B) 36 C) 6 D) $\sqrt{6}$

18. Gorizontal ravishda aylanayotgan disk ustida, disk o'qidan 1 m masofada 1 m/s chiziqli tezlik bilan aylanayotgan jism ishqalanish koeffitsiyenti qanday bo'lganda joyidan qo'zg'ala boshlaydi?
A) $0,05$ B) $0,2$ C) $0,01$ D) $0,1$

19. Solenoiddagi tok kuchi 1,5 A bo'lganda, undan 150 mWb magnit oqimi o'tsa, uning induktivligini (Hz) aniqlang.
A) $0,3$ B) 1 C) $0,5$ D) $0,1$

20. Energiyasi $6 \cdot 10^{-19}$ J ga teng bo'lgan fotonning impulsi (kg·m/s) qancha? $c=3 \cdot 10^8$ m/s
A) $2 \cdot 10^{-28}$ B) $0,2 \cdot 10^{-28}$ C) $2 \cdot 10^{-27}$
D) $0,2 \cdot 10^{-27}$

21. Yorug'lik suvda qanday tezlik (m/s) bilan tarqaladi? $n_{suv}=1,33$
A) 00000 B) $2,25 \cdot 10^8$ C) $2,20 \cdot 10^8$
D) $3 \cdot 10^8$

22. Tinch turgan liftdagi matematik mayatnik tebranish davri 5 s ga teng. Tezlanish bilan harakatlanayotgan liftdagi mayatnik tebranish davri 10 s ga teng bo'lsa, liftning tezlanishini (m/s^2) aniqlang.
A) 4 B) $7,5$ C) $2,5$ D) 5

23. Berilgan grafikdan foydalanib, $\alpha=23°$ bo'lganda jism tezligini (m/s) toping. $sin 23°=0,39$; $cos 23°=0,92$

A) $0,39$ B) $0,4245$ C) $0,92$ D) $2,36$

24. Hajmi bir litr bo'lgan kub shaklidagi idish suv bilan to'ldirilgan. Suvning idish tubiga va to'rt devoriga bo'lgan umumiy bosim kuchini (N) aniqlang.
A) 30 B) $24,4$ C) $28,3$ D) $29,4$

25. Elektr sig'imlari $C_1 = C_2 = C_3 = 10$ μF dan bo'lgan kondensatorlardan ikkitasi o'zaro paralell, uchinchisi esa ularga ketma-ket ulangan kondensatorlar bateriyasi o'zgarmas kuchlanish manbaidan zaryadlangan. Birinchi kondensator olgan elektr zaryadi 5 nC ga teng bo'lsa, uchinchi kondensatorning elektr zaryadini (nC) toping.
A) 10 B) 5 C) 15 D) $7,5$

26. Sanoq jismi ,unga bog'langan koordinatalar sistemasi va vaqt o'lchash asbobi ... deyiladi.
A) *sanoq jismi*   B) *sanoq sistemasi*
C) *koorinata boshi*   D) *fazo*

27. Metallarda erkin elektronlarning tezligi $1,1 \cdot 10^5$ m/s bo'lsa, uning kinetik energiyasi (J) nimaga teng?
A) $5 \cdot 10^{-20}$ B) $5,5 \cdot 10^{-20}$ C) $6 \cdot 10^{20}$
D) $5,5 \cdot 10^{-21}$

28. Yadro bombasining portlashi nimadan iborat?

   A) *og'ir vodorod yadrolarining sintez reaksiyasidan*

   B) *poroxning portlashidan*

   C) *dinamitning portlashidan*

   D) *yadrolar parchalanishining zanjirli reaksiyasidan*

29. 2 ta bir xil (A va B) elektrolitik vanna mis kuporosi eritmasi bilan to'ldirildi. A vannadagi eritmaning konsentratsiyasi B vannadagidan katta. Agar ular ketma-ket ulansa qaysi vannada ko'proq mis ajraladi? Parallel ulansa-chi?

   A) *bir xil, A vannada*   B) *bir xil, bir xil*
   C) *A vannada, B vannada*
   D) *B vannada, A vannada*

30. m massali zarraning kinetik energiyasi W bo'lsa, tezligi qanday?

   A) $v = c\sqrt{1 - \left(\frac{mc^2}{mc^2+W}\right)^2}$

   B) $v = \sqrt{2W/m}$

   C) $v = c^2 p/W$

   D) $v = c\sqrt{1 + \left(\frac{mc^2}{mc^2+W}\right)^2}$

31. Ko'ndalang kesim yuzasi 20 mm^2, tok tashuvchi elektronlarining konsentrasiyasi $2 \cdot 10^{22}$ sm^{-3} va tartibli harakat tezligi 0,01 mm/s ga teng bo'lgan o'tkazgichning ko'ndalang kesimi orqali 5 minutda o'tgan elektronlar sonini toping.
   A) $2,2 \cdot 10^{21}$ B) $4 \cdot 10^{21}$ C) $1,2 \cdot 10^{21}$
   D) $2 \cdot 10^{20}$

32. 25 kg toshko'mir batamom yonganda qancha issiqlik (J) ajralib chiqadi? $q=2,7 \cdot 10^7$ J/kg
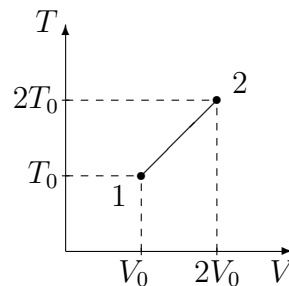   A) $6,75 \cdot 10^8$ B) $6 \cdot 10^8$ C) $5 \cdot 10^8$ D) $6,5 \cdot 10^8$

33. 60 dm^3 hajmdagi ballonda 27°C temperaturadagi 5 atm bosim ostida vodorod bor. Vodorodni ideal deb hisoblab ,gazning massasini (g) aniqlang.
   A) *24*   B) *72*   C) *40*   D) *12*

34. Massasi 5000 t bo'lgan poyezd 36 km/soat tezlik bilan harakatlanmoqda. Agar tormozlanish kuchi 0,25 MN ga teng bo'lsa, tormozlangandan keyin bir minut ichida poyezd qancha masofani (m) o'tadi?
   A) *51*   B) *5000*   C) *5100*   D) *510*

35. Rasmda bir atomli ideal gaz 1 holatdan ikkinchi holatga o'tish jarayonida temperaturasini hajmga bog'lanishini grafigi tasvirlangan. Bu jarayonda gazning ichki energiyasi 45 kJ ga ortgan bo'lsa, gaz jami qancha issiqliq (kJ) qabul qilgan?

   A) *0*   B) *90*   C) *75*   D) *45*

36. Bir uchiga 180 N yuk osilgan sterjen yukdan sterjen uzunligining 0,2 qismiga teng masofada tirgovuch qo'yilsa u gorizontal holatda muvozanotda buladi. Sterjen og'irligi (N) qancha?
   A) *100*   B) *240*   C) *120*   D) *180*

INGLIZ TILI

1. Choose the answer which correctly complete the sentence.
   Peter would buy a Cadillac if it ... so expensive.
   A) *hasn't been*   B) *weren't*   C) *wasn't*
   D) *isn't*

2. Choose the answer which correctly completes the sentence.
   Sunday morning breakfast ... in the kitchen at nine.
   A) *is being served*   B) *serves*   C) *is served*
   D) *is serving*

3. Choose the answer which correctly completes the sentence.
   It was a chance in ⋯ million that my cousin and I should run into each other in London.
   A) *a*   B) *an*   C) *the*   D) *-*

4. Choose the answer which correctly completes the sentence.
He tried to phone his friend four days ago with no success. Since then he . . . him five times.
A) *phoned*   B) *phone*   C) *has phoned*
D) *is phoning*

5. Choose the answer which correctly completes the sentence.
My little sister likes to sit on a park bench and watch the ducks . . . in the pond.
A) *swimming*   B) *swam*   C) *to swim*
D) *swum*

6. Choose the answer which correctly completes the sentence.
A young woman walked into the office. She . . . a baby.
A) *carries*   B) *had carried*   C) *carrying*
D) *was carrying*

7. Choose the answer which correctly completes the sentence.
She never allowed herself to get depressed . . . all her problems.
A) *despite*   B) *nevertheless*   C) *as for*
D) *whereas*

8. Choose the answer which correctly completes the sentence.
If I had eaten breakfast several hours ago, I . . . hungry now.
A) *wouldn't be*   B) *weren't*
C) *wouldn't have been*   D) *had been*

9. Choose the answer which correctly completes the sentence.
Benjamin Franklin said that . . . turkey should be the national bird of the Americans.
A) *a*   B) *an*   C) *the*   D) *some*

10. Choose the answer which correctly completes the sentence.
We must run to the cinema. The film . . . in five minutes.
A) *starts*   B) *will start*   C) *will be starting*
D) *is starting*

11. Choose the answer which correctly completes the sentence.
He is trying to make them . . . that they must be thankful to him.
A) *feels*   B) *feeling*   C) *feel*   D) *to feel*

12. Choose the answer which correctly completes the sentence.
Did you tell him the news? He hadn't heard the news, . . . ?
A) *had he*   B) *he had*   C) *hadn't he*
D) *had he heard*

13. Choose the answer which correctly completes the sentence.
He's talked about it many times. Any . . . discussion is useless.
A) *far*   B) *further*   C) *furthest*   D) *farthest*

14. Choose the answer which correctly completes the sentence.
You can't go on holiday without . . . money.
A) *many*   B) *some*   C) *no*   D) *any*

15. Choose the answer which correctly completes the sentence.
We had invited a hundred guests, none of . . . he knew.
A) *whom*   B) *that*   C) *whose*   D) *which*

16. Choose the answer which correctly complete the sentence.
Father didn't let us . . . so late.
A) *to go out*   B) *went out*   C) *going out*
D) *go out*

17. Choose the answer which correctly completes the sentence.
"Where is the nearest bank?"
The boy asked the tour guide where . . .
A) *the nearest bank is*   B) *is the nearest bank*
C) *the nearest bank was*
D) *was the nearest bank*

18. Choose the answer which correctly completes the sentence.
This newspaper has a long . . . of attacking corruption and mismanagement.
A) *tradition*   B) *traditionalism*
C) *traditional*   D) *traditionally*

19. Choose the answer which correctly completes the sentence.
She'll cook something delicious . . . someone calls on her this evening.
A) *so as*   B) *because of*   C) *in order*
D) *in case*

20. Choose the answer which correctly completes the sentence.

    In Britain you ... drive a car when you're 17.

    A) *need*   B) *can*   C) *must*   D) *have to*

21. Choose the answer which correctly completes the sentence.

    He hardly recognised Amanda! She ... blonde.

    A) *had to dye her hair*   B) *dyed your hair*
    C) *has had her hair dyed*
    D) *had her hair to dye*

22. Choose the answer which correctly complete the sentence.

    They have promised to lend me a tennis racket so I ... take mine.

    A) *daren't*   B) *mustn't*   C) *can't*
    D) *don't have to*

23. Choose the answer which correctly completes the sentence.

    The red car isn't as expensive as the white one, but the black one is ... expensive of all.

    A) *the least*   B) *most*   C) *less*   D) *more*

    Read the text. Then choose the correct answer to question 24-26.

    Sleep researchers have found that people can make themselves wake up at a given time simply by deciding to do so before they go to sleep. Scientists took two groups of volunteers and, at nightfall, told one group that they would be woken at 6 a.m. and the other that they would be woken at 9 a.m. The sleepers' levels of the hormone adrenocorticotropin, which is known to cause spontaneous awakening, were then measured. In each group, there was a rise in the levels of the hormone one hour before the volunteers expected to get up. The three -hour difference between the rise in hormones in the two groups suggests that the body can be programmed to wake up on command.

24. The people studied by the researchers ...

    A) *suffered from insomnia.*

    B) *were having difficulty getting up early.*

    C) *participated in the experiment at their own will.*

    D) *were unable to wake up by other means.*

25. It seems that adrenocorticotropin ...

    A) *is produced by the body some time before a person wakes up*

    B) *is responsible for causing sleeplessness in a number of people*

    C) *is used by doctors for people who have difficulty getting up*

    D) *exists in higher levels in people who wake up very early*

26. The experiment related in the passage has indicated that ...

    A) *hormones are more effective than outside stimuli for waking people.*

    B) *our bodies are capable of being conditioned to wake up at a suggested hour.*

    C) *people who wake up at 6 a.m. have more hormones than 9 a.m. risers.*

    D) *the hormones that wake people up have a three -hour long cycle.*

    Read the text. Then choose the correct answer for the gaps 27-28 in the text.

    Most whales are huge (27).... The largest whales are called blue whales. They can grow to 30 meter in length and can weigh 135,000 kilogram. Blue whales are (28)... larger than elephant and larger than any of the now extinct dinosaur. The heart of an adult blue whale is about the size of a compact car.

27.

    A) *creative*   B) *creators*   C) *creatures*
    D) *create*

28.

    A) *very*   B) *much*   C) *some*   D) *no*

    Read the text. Then choose the correct answer for the gaps 29-31 in the text.

    Consumers are creatures of habit: they buy the same products time and time again, and such is their (29)... with big brands, and the colours and logos that represent them, that they can register a brand they like with barely any conscious thought process. The packaging of consumer products (30)... therefore crucial vehicle for delivering the brand and the product (31)... our shopping baskets.

29.

    A) *familiar*   B) *familiarize*   C) *familiarly*
    D) *familiarity*

30.

A) *is*   B) *are*   C) *have been*   D) *will be*

31.

A) *of*   B) *with*   C) *towards*   D) *into*

Read the text. Then choose the correct answer to questions 32-33.

The Yangtze river dolphin has been declared "functionally extinct". This means that although there may be some of them left, there aren't enough to repopulate the species. The reason behind this tragedy is a combination of water pollution and hydro-electric dam projects. Hydro-electric dams are harmful because they isolate groups of dolphins, creating smaller populations. This means that numbers are lower, and breeding is less likely.

Now there are fears for the future of another breed of dolphin, the Amazonian pink river dolphin. The Brazilian government are planning a hydro-electric plant in the middle of their habitat. Hunting also threatens the animals. They're still widespread compared to other species, but there is a sharp decline in numbers - roughly 10% per year. "The number is worrying", said Vera da Silva, a biologist at the National Institute of Amazonian Research.

32. What is the text about?

A) *The danger of hunting for the Brazilian population.*

B) *The breeding of small river dolphins.*

C) *Hydro-electric dam projects on the Yangtze river.*

D) *The danger of two breeds of dolphins disappearing.*

33. What does the number 10 in the text refer to?

A) *Governmental organizations which fight the pollution of rivers.*

B) *The percentage of living Yangtze river dolphins.*

C) *The percentage of Amazonian dolphins which die out every year.*

D) *Groups of biologist who are trying to repopulate dolphins.*

Read the text. Then choose the correct answer to question 34-36.

In 1971 the Great Persian Empire celebrated the 1500 th anniversary of its founding.

Its founder was Cyrus the Great, who proclaimed himself the King of the Kings. His son Cambyses succeeded his throne, conquering Egypt and expanding the empire.

Darius I followed Cambyses and was probably the most famous of this long line of kings. Under his rule, the empire stretched as far as India.

Governors were placed in charge of the provinces. Extensive systems of roads and waterways improved communication throughout the kingdom. He was one of a few ancient rulers who permitted his subjects to worship as they wished. The magnificent city of Persepolis, founded under his direction in 518 B.C. was a ceremonial center.

34. Who is considered the creator of the Persian Empire?

A) *Darius I*   B) *Persepolis*   C) *Combyses*
D) *Cyrus*

35. Who was the predecessor of Cambyses?

A) *Cyrus*   B) *Persepolis*   C) *Darius I*
D) *Egypt*

36. Who were responsible for the provinces?

A) *the Egyptians*   B) *the governors*
C) *the King*   D) *the subjects*