



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 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‘tirozlar ko‘rib chiqilmaydi.

Kitob tipi: **48 (636624)**

FANLAR:

Blok 1: Matematika (informatika bilan)

Blok 2: Fizika

Blok 3: Ingliz tili

Savollar kitobi raqami: **1912905**

Toshkent – 2015



MATEMATIKA (INFORMATIKA BILAN)

- $\log_2 64 + \log_2 4 + \log_2 \sqrt[3]{4} + \dots$ ni hisoblang.
A) ∞ B) 8 C) 0 D) 9
- Teng yonli trapetsiya asosidagi burchakning sinusi 0,6 ga, asoslarining ayirmasi 4 ga teng bo'lsa, trapetsiyaning yon tomonini toping.
A) 3 B) 4 C) 2 D) 2,5
- Radiuslari $r=1$ sm va $R=3$ sm bo'lgan aylanalar tashqi ravishda urinadi. Aylanalar urinish nuqtasidan ularning umumiy urinmalarigacha bo'lgan masofani (sm) toping.
A) $4/5$ B) $5/6$ C) $3/2$ D) $2/3$
- $f(x) = -3x^2 + 5x^4$, $F(x) = ?$
A) $x^3 + x^5 + c$ B) $-x^3 + x^5 + c$ C) $x^3 + \frac{x^5}{5} + c$
D) $\frac{x^3}{4} + \frac{x^4}{5} + c$
- 2 va 162 sonlari orasiga shunday 3 ta son qo'yildiki, ular birgalikda ishorasi almashinuvchi geometrik progressiyani tashkil qildi. Oraga qo'yilgan sonlar yig'indisini toping
A) 78 B) 42 C) 0 D) -42
- Agar $f(4) = 5$, $f(3) = 4$, $f(2) = 3$ bo'lsa, $(f^{-1}(3) + f^{-1}(4)) \cdot f(4)$ ifodaning qiymatini hisoblang. $(f^{-1}(x))$ funksiya $f(x)$ ga teskari funksiya)
A) 20 B) 15 C) 25 D) 35
- $x - 4 < \sqrt{x^2 - 6x}$ tengsizlikni yeching.
A) $(8; \infty)$
B) $(-\infty; 0) \cup (6; \infty)$
C) $(-\infty; \infty)$
D) $(-\infty; 0] \cup (8; \infty)$
- Toq funksiyaning ko'rsating.
A) $y = 2x^2 - 3|x| + 2$ B) $y = \frac{x^2}{x+1}$ C) $y = \frac{x+x^3}{x^5}$
D) $y = x \cos x$
- $\sqrt{1 - \cos x} = \sin x$ ($x \in [\pi; 3\pi]$) tenglamani ildizlari yig'indisini toping.
A) $4, 5\pi$ B) 2π C) 4π D) 3π
- XOY dekart koordinatalar tekisligida A(3;2), B(1;3), M(2;1) va N(z;-1) nuqtalar belgilangan bo'lib, ulardan tuzilgan \overline{AB} va \overline{MN} vektorlar o'zaro parallel bo'lsa, z nechaga teng?
A) 1 yoki 3 B) 5 C) 3 D) 6
- Natural a sonni b ga bo'lganda bo'linma c va qoldiq d bo'ldi. Agar bo'linuvchi va bo'linma ikki marta ortsa, qoldiq qanday o'zgaradi?
A) 4 marta ortadi B) 2 marta kamayadi C) o'zgarmaydi D) 2 marta ortadi
- Ikkita shar berilgan bo'lib, ularning radiuslari 3 dm va 25 sm. Sharlar kesishish chizig'ining uzunligi 48π sm bo'lsa, ularning markazlari orasidagi masofani (sm) toping.
A) 12 yoki 20 B) 11 yoki 24 C) 11 yoki 25 D) 18 yoki 24
- $\begin{cases} x^2 + y^2 = 2(xy + 2) \\ x + y = 6 \end{cases}$ tenglamalar sistemasidan $|x - y|$ ni toping.
A) 3 B) 2 C) 1 D) 0
- $\frac{\sqrt{x^3} - \sqrt{y^3} + \sqrt{xy^2} - \sqrt{x^2y}}{\sqrt[4]{y^5} + \sqrt[4]{x^4y} - \sqrt[4]{xy^4} - \sqrt[4]{x^5}}$ ifodani soddalashtiring.
 $x \neq y, x > 0, y > 0$
A) 0
B) $-(\sqrt{x} + \sqrt{y})$
C) 1
D) $-(\sqrt[4]{x} + \sqrt[4]{y})$
- m ning nechta qiymatida $\frac{3x - m}{3 - x} + \frac{x + m}{x + 1} = 2$ tenglama bitta ildizga ega?
A) 2 B) 3 C) 4 D) 1
- Qo'shni burchaklardan biri ikkinchisidan 40° kichik bo'lsa, katta burchakni toping.
A) 80° B) 110° C) 100° D) 70°
- $f(x) = (1 + 2x)^2$ funksiyaning hosilasini toping.
A) $2(1 + 2x)$ B) $4x(1 + 2x)$ C) $4(1 + 2x)$ D) $4(1 - 2x)$
- Muntazam parallelepipedning balandligi asosining tomonidan $\sqrt{6}$ marta katta. Parallelepipedning diagonal asos tekisligi bilan qanday burchak tashkil etadi?
A) 30° B) 60° C) $\arccos \frac{1}{2\sqrt{3}}$ D) $\arccos \frac{1}{\sqrt{6}}$
- $7x - 2x^2 + x^3 - 1$ ko'phadni $x^2 - x + 1$ ko'phadga bo'lgandagi qoldiqni toping.
A) $-5x$ B) $x - 2$ C) $2 - x$ D) $5x$
- $\begin{cases} \sin^2 x + \sin^2 y = 0,5, \\ x - y = \frac{4\pi}{3} \end{cases}$ sistemani yeching.
A) $\left(\frac{7\pi}{6} + 2\pi k; -\frac{\pi}{6} + 2\pi k\right), k \in Z$
B) $\left(\frac{7\pi}{6} + \frac{\pi k}{2}; -\frac{\pi}{6} + \frac{\pi k}{2}\right), k \in Z$
C) $\left(\frac{7\pi}{6} + \frac{\pi k}{6}; -\frac{\pi}{6} + \frac{\pi k}{6}\right), k \in Z$
D) $\left(\frac{7\pi}{6} + \pi k; -\frac{\pi}{6} + \pi k\right), k \in Z$
- Tenglamani yeching:
 $\sqrt{3} \cos^2 x = \sin x \cdot \cos x$
A) $\frac{\pi}{3} + \pi k, k \in Z$
B) $\frac{\pi}{2} + \pi n, \frac{\pi}{3} + \pi k, k, n \in Z$
C) $\frac{\pi}{2} + \pi k, k \in Z$
D) $\frac{\pi}{2} + 2\pi k, \frac{\pi}{3} + 2\pi k, k \in Z$
- Katetlari $3 - 2\sqrt{5}x + x^2 = 0$ tenglama ildizlariga teng bo'lgan to'g'ri burchakli uchburchakning yuzini toping.
A) 2 B) 5 C) 1,5 D) 4

23. Quyidagilardan qaysi biri $n(n \in \mathbb{N})$ ning istalgan qiymatida natural son bo'ladi?

- A) $\frac{n^3}{6} + \frac{n^2}{2} + \frac{n}{3}$
 B) $\frac{3^n + 3^{n+1} + 3^{n+2}}{12}$
 C) $\frac{4^n + 4^{n+1} + 4^{n+2}}{22}$
 D) $\frac{2^n + 2^{n+1} + 2^{n+2}}{21}$

24. To'g'ri burchakli uchburchakning perimetri 24 sm ga, yuzi 24 sm^2 ga teng bo'lsa, unga tashqi chizilgan doiraning yuzini (sm^2) toping.

- A) 20π B) 25π C) 30π D) 35π

25. $\frac{20}{1 + \frac{20}{1 + \frac{20}{\dots}}}$ + 1 ni hisoblang.

- A) 8 B) 10 C) 6 D) 5

26. $-0, (44)$ ning teskarisiga qarama-qarshi bo'lgan sonning kvadrat ildizini toping.

- A) $-1,5$ B) $1,5$ C) $-\frac{2}{3}$ D) $\frac{2}{3}$

27. $\left| \frac{4 - 5x + x^2}{x^2 - 4} \right| \leq 1$ tengsizlikni yeching.

- A) $[0; 1,6] \cup [2,5]$ B) $[0; 1,6] \cup [2,5; \infty)$ C) $[0; 1,6]$
 D) $(0; 1,6)$

28. $8 \int_0^{\frac{\pi}{8}} \sin x \cdot \cos x \cdot \cos 2x dx$ ni hisoblang

- A) $\frac{1}{2}$ B) $-\frac{1}{2}$ C) $\frac{1}{4}$ D) 1

29. 9 ga bo'lganda qoldiq 7 ga, 8 ga bo'lganda esa qoldiq 3 ga teng bo'ladigan hamda ikkinchi bo'linma birinchi bo'linmadan 1 ga ortiq bo'ladigan natural sonni toping.

- A) 91 B) 61 C) 75 D) 43

30. Radiusi R ga teng bo'lgan aylanaga tashqi chizilgan muntazam n -burchakning tomoni b ga teng bo'lsa, shu aylanaga ichki chizilgan muntazam n -burchakning tomonini toping.

- A) $\sqrt{R^2 + \frac{b^2}{4}}$ B) $\frac{2bR}{\sqrt{4R^2 + b^2}}$ C) $\frac{2bR}{\sqrt{4R^2 - b^2}}$
 D) $\sqrt{R^2 - \frac{b^2}{4}}$

31. Ikkilikda aks etgan quyidagi axborot necha bayt?
1011101000111010

- A) 2 B) 4 C) 8 D) 16

32. 2 ta mushuk 2 soatda 2 ta sichqonni yeydi. 4 ta mushuk 4 soatda nechta sichqonni yeydi?

- A) 4 B) 2 C) 8 D) 6

33. Kompyuterga dasturiy ta'minotni o'rnatish jarayoni ... deyiladi.

- A) *installyatsiya* B) *deinstallyatsiya* C) *arxivlash*
 D) *defragmentatsiya*

34. MS Excel 2003 dasturida A1 katakda 8, A2 katakda 7, A3 katakda 6 qiymati berilgan bo'lsa, =ПРОИЗВЕД(A1:A3) formula bo'yicha A4 katakda qanday natija hosil bo'ladi?

- A) 335 B) 48 C) 338 D) 336

35. Faqat brauzerlar berilgan qatorni ko'rsating

- A) *Netscape Navigator, Internet Explorer*
 B) *Mozilla, MySQL* C) *MySQL, Internet Explorer*
 D) *AutoCAD, Internet Explorer*

36. Paskal tilida quyidagi dastur bajarilishi natijasida ekranga chiqariladigan axborotlarni aniqlang:

Label a;
 Var k,b,c:string[6];
 Begin K:='20'; B:='14'; goto a; C:='01.08.';write(C:2); a:
 write(K:1,B:2); end.

- A) 214 B) 01.08.2014 C) 2014 D) 01.08

FIZIKA

37. Bir to'g'ri chiziq bo'ylab 10 m/s tezlik bilan harakatlanayotgan jismga gorizontal yo'nalishda uchta kuch ta'sir eta boshladi. Kuchlarning modullari bir xil bo'lib, ularning yo'nalishlari orasidagi burchaklar 120° dan. Jismning keyingi harakati qanday bo'ladi?

- A) *to'g'ri chizikli tekis sekinlanuvchan harakat*
 B) *to'g'ri chizikli tekis harakat*
 C) *to'g'ri chizikli tekis tezlanuvchan harakat*
 D) *aylana bo'ylab tekis harakat*

38. Ersted tajribada nimani aniqlangan?

- A) *tokli o'tkazgich magnit maydonining magnit strelkasiga ta'sirini*
 B) *magnit maydon kattaligini*
 C) *parallel toklarning o'zaro ta'sirini*
 D) *magnit maydon yo'malishini*

39. Bir jinsli magnit maydoniga induksiya vektorining yo'nalishiga $\pi/3$ burchak ostida 100 m/s tezlik bilan uchib kirgan zarracha spiral trayektoriya bo'ylab harakat qiladi. Induksiya vektorining moduli 3 T, zarrachaning zaryad miqdori $50 \mu\text{C}$, massasi 0,3 mg ga teng. Spiral qadamining uzunligini (sm) toping.

- A) 50 B) 62,8 C) 25 D) 31,4

40. Elektr qarshiligi 0,1 k Ω ga teng bo'lgan silindr shaklidagi simni cho'zib, uzunligi 10% ga oshirilsa, uning qarshiligi necha Ω ga teng bo'lib qoladi?

- A) 121 B) 90 C) 110 D) *o'zgarmaydi*

41. 830 km/s tezlikka ega bo'lgan erkin elektronlar seziydan chiqsa, uning chiqish ishini (eV) toping.

- A) 3,13 B) 1,78 C) 6,13 D) 1,96

42. C sig'imli kondensator U kuchlanish bilan, 2C sig'imli kondensator $3U$ kuchlanish bilan zaryadlangan. Bu kondensatorlar qutblarini teskari holda ulansa, sistemaning natijaviy zaryadi qanday bo'ladi?

- A) $5CU/2$ B) $CU/2$ C) $2CU$ D) $5CU$

43. Misdan yasalgan detal simob ustida suzib yuribdi. Uning qancha qismi (%) suyuqlikdan chiqib turibdi? Simob zichligi 13600 kg/m^3 , misning zichligi 8900 kg/m^3 .

- A) 84,6 B) 34,5 C) 47,8 D) 80,1

44. Bir atomli ideal gaz temperaturasi 10 K oshirilganda uning molekulari o'rtacha kvadratik tezligi 100 m/s dan 150 m/s ga yetgan. Molekular tezligi 200 m/s dan 250 m/s gacha ortganda temperatura qanchaga ortadi?

- A) 18 B) 18.5 C) 18.7 D) 18.9

45. Qarshiliklari 5 Ω va 3 Ω bo'lgan 2 ta o'tkazgich ketma-ket ulangandagi umumiy qarshilik R_A ning ular parallel ulangandagi umumiy qarshilik R_B ga nisbati R_A/R_B ni toping.

- A) 64/15 B) 81/20 C) 25/6 D) 121/28

46. Moddiy nuqtaning berilgan sanoq sistemasidagi harakati $x = 7 + 4t$ va $y = 5 + 3t$ tenglamalar bilan berilgan. Jism dastlabki 2 s ichida qanchaga ko'chadi (m)?
A) 10 B) 13 C) 14 D) 19
47. 250 K temperatura va 83,1 kPa bosimdagi vodorodning zichligini (kg/m^3) aniqlang.
A) 0,83 B) 0,05 C) 0,08 D) 0,02
48. Tok kuchining vaqt o'tishi bilan o'zgarishi $i = 4\cos(10^2\pi t + \frac{\pi}{2})$ tenglama bilan berilgan. Tok kuchining $\frac{\pi}{3}$ rad fazadagi qiymatini (A) toping.
A) $\frac{\pi}{3}$ B) 2 C) 4 D) 1
49. Daryo suvining tezligini o'lchash maqsadida oqayotgan daryo suviga 90° ga egilgan truba tushirilganda, suv trubada daryo suvining erkin sirtiga qaraganda 30 sm ga ko'tarildi. Daryo suvining tezligi qancha (m/s) bo'lgan? $g=10 \text{ m/s}^2$
A) 6 B) $2\sqrt{2}$ C) $\sqrt{3}$ D) $\sqrt{6}$
50. Yorug'lik nuri havodan muhitga o'tganida qaytgan nur bilan singan nur orasidagi burchak 90° ga teng bo'ldi. Nurning tushish burchagi 56° ga teng. Ikkinchi muhitda yorug'lik nurining tarqalish tezligini toping (m/s). $\text{tg}(56^\circ)=1,5$
A) $2 \cdot 10^8$ B) $3 \cdot 10^8$ C) $1,5 \cdot 10^8$ D) $1,2 \cdot 10^8$
51. Sim ramka bir jinsli magnit maydonda aylantirilganda ramkani kesib o'tuvchi induksiya oqimi vaqt o'tishi bilan $\Phi = 10^{-2}\cos 10\pi t$ qonunga asosan o'zgaradi. Ramkaning aylanish chastotasi (Hz) qanday?
A) 5 B) 10π C) 6 D) 4
52. Yuk avtomobili o'rtacha 10 m/s tezlik bilan yurganda har 100 km yo'lga 38 l benzin sarf qiladi. Avtomobil dvigatelning o'rtacha quvvatini (kW) toping. Dvigatelning FIK 22,5%; $\rho=700 \text{ kg/m}^3$; $q=46 \cdot 10^6 \text{ J/kg}$.
A) 36,5 B) 27,5 C) 16,5 D) 40,5
53. Elektrlampada ballonida 100 W, 220 V yozilgan. Sovuq holda cho'g'lanish tolasi qarshiligini o'lchash uchun lampaga 2 V kuchlanish berildi, bunda tok kuchi 54 mA bo'ldi. Volfram tolani cho'g'lanish temperaturasi ($^\circ\text{C}$) toping.
 $\alpha = 0,0048 \frac{1}{\text{K}}$
A) 2514 B) 1514 C) 3514 D) 514
54. Jism tik yuqoriga 72 km/h tezlik bilan otildi. Qanday balandlikda (m) uning kinetik va potensial energiyalari tenglashadi? $g=10 \text{ m/s}^2$
A) 10 B) 40 C) 30 D) 5
55. Elektrolitik yo'l bilan bir xil massali aluminiy va mis olishga sarf bo'ladigan elektr energiyasi sarflarini solishtiring. Vannada kuchlanish normaga ko'ra aluminiy olishda misni tozalashdagi kuchlanishdan o'n to'rt marta katta. Aluminiy va mis uchun mos ravishda $k_{Al}=0,093 \text{ mg/C}$, $k_{Cu}=0,33 \text{ mg/C}$.
A) aluminiy uchun 50 marta kam
B) aluminiy uchun 5 marta kam
C) aluminiy uchun 88 marta ortiq
D) aluminiy uchun 50 marta ortiq
56. Yo'ning gorizontal qismida 36 km/h tezlik bilan harakatlanayotgan tramvayga favqulodda holat tufayli tormoz berildi. U to'xtaguncha qancha masofaga (m) sirpanib boradi? Ishqalanish koeffitsiyentini 0,2 deb oling. $g=9,8 \text{ m/s}^2$
A) 25,5 B) 26,6 C) 26,2 D) 25,9
57. Sun'iy yo'ldoshning aylanish davri 8 marta ortsa, uning chiziqli tezligi necha marta o'zgaradi?
A) 2 marta ortadi B) 8 marta ortadi
C) 2 marta kamayadi D) 4 marta kamayadi
58. 190 va 250 Ω qarshilikka ega bo'lgan ikkita lampochka 220 V kuchlanishli tok manbaiga ketma-ket ulangan. Lampochkalardan o'tayotgan tok kuchini (A) toping.
A) 0,2 B) 0,5 C) 0,4 D) 0,6
59. Yassi ko'zguga nur 24° burchak ostida tushmoqda. Tushayotgan nurning yo'nalishi o'zgartirilmasdan ko'zgu ma'lum burchakka burilganda, qaytgan nur 20° ga burilgan bo'lsa, qaytgan nur bilan ko'zgu tekisligi orasidagi burchak necha gradusga teng bo'lib qoladi?
A) 66° B) 48° C) 56° D) 40°
60. Suv kapillar naychada 0,028 m ga ko'tarildi. Naychaning diametrini (mm) aniqlang. Suvning sirt taranglik koeffitsiyentini 0,07 N/m deb oling.
A) 1 B) 2 C) 0,2 D) 0,7
61. Ikki kondensatordagi zaryadlar q va 3q ga, kuchlanishlar mos ravishda U va 4U ga teng. Agar bu kondensatorlarni qutblari teskari holda ulansa, hosil bo'lgan kondensatorlar batareyasini zaryadi qanday bo'ladi?
A) 4q B) 2q C) $3q/2$ D) $5q/2$
62. $M = 10 \text{ kg}$ massa va $V=500 \text{ m/s}$ tezlikka ega bo'lgan snaryad portlab ikki bo'lakka bo'lindi, $M/2$ massa va $2V$ tezlikka ega bo'lgan birinchi bo'lak dastlabki yo'nalishiga nisbatan $\pi/4$ burchak ostida uchib ketdi. Ikkinchi bo'lakning impulsi snaryadning dastlabki impulsidan necha marta katta?
A) 0,34 B) 0,76 C) 1,69 D) 4,50
63. Yarim yemirilish davrining yarmiga teng vaqt ichida biror element radioaktiv yadrolarining qancha qismi yemiriladi?
A) 0,23 B) 0,25 C) 0,22 D) 0,29
64. Zaryadlangan yassi havo kondensatori qoplamalaridagi zaryadning sirt zichligi to'rt marta orttirilib, qoplamalar orasi dielektrik singdiruvchanligi to'rtga teng bo'lgan muhit bilan to'ldirilsa, elektr maydon energiyasi zichligi qanday o'zgaradi?
A) o'zgarmaydi B) 4 marta ortadi C) 2 marta ortadi
D) 8 marta ortadi
65. Massasi 30 kg bo'lgan tinch turgan jismga bikrligi 3000 N/m bo'lgan prujina mahkamlangan. Prujinani o'zgarmas 5 sm/s tezlik bilan cho'za boshlashdi. Agar ishqalanish koeffitsiyenti 0,1 ga teng bo'lsa, necha sekunddan so'ng jism joyidan qo'zg'aladi?
A) 0,2 B) 5 C) 0,002 D) 20
66. 120 m balandlikdan 10 m/s boshlang'ich tezlik bilan pastga tashlangan jismning tushish vaqti (s) va oxirgi tezligini (m/s) toping.
A) 3; 40 B) 4; 60 C) 3; 50 D) 4; 50
67. Dvigatelning avtomobil joyidan qo'zg'alib, 7,5 m/s tezlikka erishguncha bajargan ishi A_1 va tezlikni 7,5 dan 15 m/s gacha oshirganda bajargan ishi A_2 orasida qanday munosabat o'rinni bo'ladi?
A) $A_1 = A_2$ B) $A_1 = 2A_2$ C) $A_2 = 3A_1$ D) $A_2 = 2A_1$
68. Suv qizil yorug'lik bilan yoritilgan. Uning to'lqin uzunligi havoda $7 \cdot 10^{-7} \text{ m}$ bo'lsa, suvda qancha (μm) bo'ladi? Suv ostida ko'zini ochgan odam qanday rangni ko'radi?
A) 0,54; yashil B) 0,93; yashil C) 0,93; qizil
D) 0,54; qizil
69. Elektron atomni ionlashi uchun kamida qanday tezlikka (Mm/s) ega bo'lishi kerak? Atomning ionizatsiya energiyasi $0,392 \cdot 10^{-17} \text{ J}$. Elektron massasi $9,1 \cdot 10^{-31} \text{ kg}$.
A) 3,22 B) 3,37 C) 2,94 D) 29,4

70. Uzunligi 1 m bo'lgan vaznsiz sterjenning *A* uchiga 3 kg va *B* uchiga 2 kg yuklar osilgan. Sterjenning qayeridan tayanchga qo'ysak, u muvozanatda turadi?
A) *B*-uchidan 25 sm B) *B*-uchidan 45 sm
C) *A*-uchidan 60 sm D) *A*-uchidan 40 sm
71. Ideal issiqlik dvigateli isitgichining harorati 423 K, sovutgichiniki esa 293 K. Agar ishchi jism isitgichdan 100 kJ issiqlik miqdori olgan bo'lsa, shu dvigatelning bajargan ishini (kJ) toping.
A) 28 B) 40 C) 35 D) 30,7
72. Suv 2 K ga isitilsa, har bir molekulasining o'rtacha energiyasi qanchaga (*J*) ga ortadi? Suv uchun
 $C=4200 \frac{J}{kg \cdot K}$, $M=18 \text{ g/mol}$, $N_A = 6 \cdot 10^{23} \text{ mol}^{-1}$.
A) 10500 B) $3,15 \cdot 10^{-23}$ C) $2,52 \cdot 10^{-22}$ D) 8400

INGLIZ TILI

73. Choose the answer which correctly completes the sentence.
The couple who were celebrating their anniversary had been ... married for fifty years.
A) *happily* B) *more happily* C) *the happiest*
D) *happy*
74. Choose the answer which correctly completes the sentence.
A lot of people celebrate ... Thanksgiving Day by gathering with family or friends for a holiday feast.
A) - B) *a* C) *some* D) *the*
75. In Britain, most shops close at 6 p.m. ... in other countries they are often open in the evening too.
A) *moreover* B) *despite* C) *besides* D) *whereas*
76. Choose the answer which correctly completes the sentence.
Millions of years ago, dinosaurs roamed the Earth, but they ... extinct by the time humankind first appeared.
A) *become* B) *have become* C) *became*
D) *had become*
77. Choose the best answer.
I should ... to the party with pleasure, if I ... angry with you.
A) *have come/hadn't been* B) *have come/had been*
C) *had come/were* D) *come/had been*
78. Choose the answer which correctly completes the sentence.
Historians don't know how the ancient Egyptians ... move huge pieces of stone to build the pyramids.
A) *must* B) *should* C) *may* D) *could*
79. Choose the answer which correctly completes the sentence.
As soon as everybody leaves it, the lights in the office turn ... off automatically.
A) *themselves* B) *itself* C) *it* D) *them*
80. John Keynes used his ... of economics to help his college and himself.
A) *a knowledge* B) *knowledge* C) *knowledges*
D) *knowledge's*
81. Choose the answer which correctly completes the sentence.
Because they are suffering ... a shortage of oxygen, some people believe that they yawn.
A) *at* B) *in* C) *from* D) *to*
82. Choose the answer which correctly completes the sentence.
Welcome to the party, everyone! Just help ... to sandwiches and snacks.
A) *each other* B) *yourself* C) *me* D) *yourselves*
83. Choose the answer which correctly completes the sentence.
"Why are you looking so pretty tonight?" - she asked.
She asked ...
A) *why she was looking so pretty that night.*
B) *why did she look so pretty tonight.*
C) *why was she looking so pretty that night.*
D) *why she looks so pretty tonight.*
84. Choose the answer which correctly completes the sentence.
We can't get him on the phone. We ... for 2 hours.
A) *were trying* B) *try* C) *have been trying*
D) *am trying*
85. Choose the answer which correctly completes the sentence.
Sam was badly injured in a car accident. At the moment he ... in hospital.
A) *is being treated* B) *is treating* C) *treats*
D) *is treated*
86. Choose the answer which correctly completes the sentence.
The weather is ... that I don't like to leave my apartment.
A) *such cold* B) *so cold* C) *so coldly* D) *too coldly*
87. Choose the answer which correctly completes the sentence.
There's still the television problem. Someone ... it, but then it broke down again.
A) *has repaired* B) *was repairing* C) *repaired*
D) *repaires*
88. There are twenty species of wild roses in North America, ... have prickly stems, pinnate leaves, and large flowers, which usually smell sweet.
A) *which* B) *who* C) *what* D) *where*
89. Choose the answer which correctly completes the sentence.
Rooney a terrific soccer player! Did you see him ... that goal? It was very impressive.
A) *makes* B) *to make* C) *make* D) *made*
90. Choose the answer which correctly completes the sentence.
"Don't wait for me, Yulduz", said Anvar. Anvar told Yulduz ... for him.
A) *not to wait* B) *don't wait* C) *didn't wait*
D) *to wait*
91. Choose the answer which correctly completes the sentence.
I live in a beautiful ... part of Madrid.
A) *resident* B) *residence* C) *residential* D) *reside*
92. Choose the answer which correctly completes the sentence.
I don't like love stories. - ...
A) *Neither am I.* B) *Neither I do.* C) *So do I.*
D) *Neither do I.*
93. Choose the answer which correctly completes the sentence.
I'm going to visit my family during the school vacation. I'm looking forward to ... my mother's cooking and sleeping in my own bed.
A) *ate* B) *eat* C) *eaten* D) *eating*
94. Choose the answer which correctly completes the sentence.
Let's change the topic, ...?
A) *do we* B) *shall we* C) *do you* D) *let us*

95. Choose the answer which correctly completes the sentence.
Traffic controller confirmed that the bus ... leave on time at 8 o'clock this evening.
A) *would* B) *will* C) *should* D) *must*

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

Palmistry is the practice of 'reading hands', of gaining knowledge about personality, past individual history, and likely future events by examining the shape and size of the fingers and, most important, the lines and bumps on the palms themselves. There is some evidence that palmistry may have begun in the Stone Age. Hand outlines can be seen in black and red pigments on the walls of the ancient caves of Almira in Spain and in other European caves. Palmistry as it exists today probably had its origins in ancient India long before recorded history and found its way into western Europe through nomadic bands of Gypsies, who made contact with Europe in the 15th century.

96. Of the following, the one not mentioned in the passage as a part of palmistry is ...
A) *changing the events of the future.*
B) *learning about character.* C) *exploring people's pasts.*
D) *foretelling the future.*
97. It is stated in the passage that the most essential thing for a palm reader to do is ...
A) *to look closely at the surface of the palm.*
B) *to learn about different personality types.*
C) *to inspect the fingers carefully.*
D) *to practise by 'reading' many palms.*
98. The passage explains that it is most likely that palmistry as we know it began ...
A) *in caves of western Europe.*
B) *in India in ancient times.* C) *in caves in Spain.*
D) *in various parts of Europe.*

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

Mary Queen of Scots, had the strongest claim to the throne of England after the children of Henry VIII through her grandmother Margaret Tudor. This claim made Mary a threat to Elizabeth I of England, who ... (27) had her executed. However, Mary's son, James VI of Scotland, succeeded Elizabeth to the English throne as James I. Mary's reported beauty and charm and her undoubted courage ... (28) her a particularly romantic figure in history. She is the subject of Schiller's great drama Maria Stuart, of an opera by Donizetti.

99.
A) *similarly* B) *frankly* C) *finally* D) *interestingly*
100.
A) *insured* B) *insure* C) *insuring* D) *insures*

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

The Washington National Monument is a tapering shaft or obelisk (29) ... white marble, 555 feet five and one-eighth inches (30) ...

In 1833 the Washington National Monument Society was organized "for the purpose of (31) ... a great National Memorial to Washington". Fifteen years later the cornerstone was laid.

101.
A) *to* B) *for* C) *of* D) *off*
102.
A) *higher* B) *highly* C) *highs* D) *high*

103.
A) *erected* B) *erecting* C) *erect* D) *to erect*

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

The jumper I had been given for my birthday was too small for me, I thought it would be sensible to dash into the large department store where it had been bought and exchange it for a larger one. I went to the store. The girl I spoke to at the counter was extremely helpful, but unfortunately they had no others in my size, so I left with the original gift after putting it and the receipt for it back in my bag.

As I was leaving the shop, my arms were grabbed viciously by a stern man and a woman. They refused to tell me who they were or what I was accused of. I demanded to know what I had done wrong, but this was met with silence as they marched me through a side entrance to the store and to a small room upstairs. I had always assumed that a receipt would be enough to prove a shopper's innocence in such cases. When I showed them mine, they looked at me as if I were trying to get away with a particularly cunning trick.

I insisted on taking me to the shop-assistant which they did. She confirmed all I had said. They let me go, but didn't even apologize.

104. The writer dashed to the store and came out with ...
A) *another jumper in the same size* B) *another present*
C) *a larger jumper* D) *the same jumper*
105. When the writer asked what was happening the man and the woman ...
A) *accused her of stealing*
B) *refused to answer her questions*
C) *took her to the police station*
D) *told her they were store detectives*

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

When it is hot and humid outside, most of us enjoy air-conditioning. Although many people believe that air-conditioning only cools the indoor air, it also controls its moisture content and cleanliness. Because human comfort depends on humidity to a large degree, air-conditioning can remove moisture from the air or add it as necessary. Air-conditioning devices also control air circulation by bringing in fresh air and removing polluted air. During winter, it warms the air to a comfortable temperature and pumps clean, moist air into the quarters where people live and work. In business offices, air-conditioning improves the efficiency of workers. In air-conditioned offices, employees become less tired, make fewer mistakes and have fewer accidents. The same can be said about drivers who may feel tired and sleepy while sitting in a warm vehicle. That is why driving an air-conditioned car makes one less prone to accidents, especially in the afternoon or evening.

106. What is the function of air conditioning?
A) *It sometimes cleans the air.*
B) *It controls the indoor environment.*
C) *It changes climatic condition.*
D) *It only cools the indoor air.*
107. Why is air-conditioning beneficial for office workers?
A) *They are sleepy and exhausted.*
B) *They feel active and not so tired.*
C) *They enjoy fresh air.* D) *They make more mistakes.*
108. The word EMPLOYEE in the text means ...
A) *the owner of the company*
B) *a person that employs other people*
C) *a person who works for somebody*
D) *a person who gives lectures*