.

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:

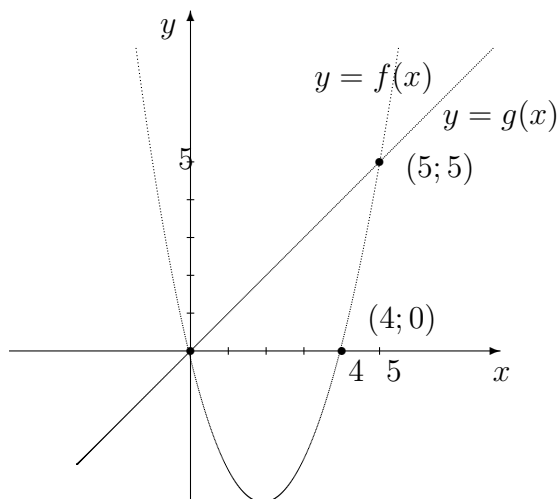*Blok 1: Matematika (informatika bilan)*
Blok 2: Fizika
Blok 3: Ingliz tili

Savollar kitobi raqami: **1000036**

Toshkent − 2014

MATEMATIKA (INFORMATIKA BILAN)

1. Silindrga muntazam uchburchakli prizma ichki chizilgan, prizmaga esa silindr ichki chizilgan bo'lsa, katta silindr hajmi kichik silindr hajmidan necha marta katta bo'ladi?

   A) *6*   B) *4*   C) *3*   D) *2*

2. $\overrightarrow{a}(1; -1)$ va $\overrightarrow{b}(-2; m)$ vektorlar kollinear. m ning nimaga tengligini toping.

   A) *-2*   B) *2*   C) *1*   D) *-3*

3. A nuqta ikki yoqli to'g'ri burchakning yoqlaridan 6 va 8 ga teng uzoqlikda yotsa, shu nuqtadan ikki yoqli burchakning qirrasigacha bo'lgan masofani toping.

   A) *12*   B) *9*   C) *8*   D) *10*

4. Barcha ikki xonali sonlar ko'paytmasidan tashkil topgan ko'paytmada 7 sonining eng katta darajasini aniqlang.

   A) *16*   B) *14*   C) *15*   D) *13*

5. Quyidagi chizmaga asoslanib $\dfrac{f(8)}{g(8)}$ ning qiymatini toping.

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

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

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

7. $f(x) = \dfrac{1}{2}sin2x + x$, $f'(x) - ?$

   A) $\dfrac{1}{2}cosx + 1$ B) $2cos2x + 1$ C) $cos2x + 1$
   D) $cos2x$

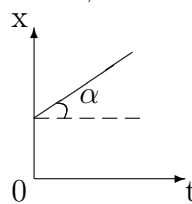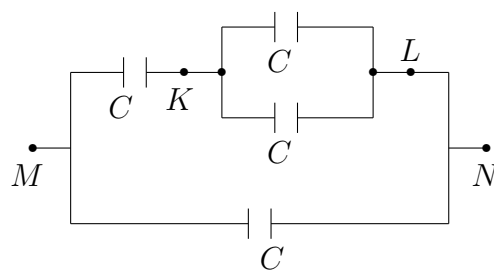8. $sin^6\alpha + cos^6\alpha + \dfrac{3}{4}sin^2 2\alpha$ ni hisoblang.

   A) *1*   B) *-1*   C) $sin^2\alpha$ D) $cos^2\alpha$

9. 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) *503*   B) *143*   C) *936*   D) *167*

10. 5^{200} sonini 24 ga bo'lganda qoladigan qoldiqni aniqlang.

    A) *3*   B) *15*   C) *23*   D) *1*

11. To'g'ri burchakli trapetsiyaning bitta burchagi 60°, katta asosi 12 sm ga teng. Agar trapetsiyaning kichik diagonali katta asosiga teng bo'lsa, diagonallar o'rtalarini tutashtiruvchi kesma uzunligini (sm) toping.

    A) *3*   B) *8*   C) *4*   D) *5*

12. Uchta butun son tashkil etgan arifmetik progressiyada birinchi hadi 1 ga teng. Agar ikkinchi hadga 3 qo'shilsa, uchinchisi kvadratga ko'tarilsa, geometrik progressiya hosil bo'ladi. Uchinchi sonni toping.

    A) *6*   B) *8*   C) *7*   D) *9*

13. $\dfrac{6^6 \cdot 2^3 - 3^6}{6^6 + 6^3 \cdot 3^3 + 3^6}$ ni hisoblang.

    A) *7*   B) *3*   C) *11*   D) *9*

14. $|x| - |x - 2| = 2$ tenglamani yeching.

    A) $[2; \infty)$ B) $\{-2\}$ C) $(2; \infty)$ D) $\{2\}$

15. $\sqrt{x - 3 - 2\sqrt{x - 4}} + \sqrt{x - 4\sqrt{x - 4}} = 1$ tenglamaning ildizlarini toping.

    A) $[6; 9]$ B) $[5; 8]$ C) $[3; 4]$ D) $[6; 8]$

16. Muntazam sakkizburchakka tashqi chizilgan aylana radiusi $\sqrt{2 + \sqrt{2}}$ ga teng bo'lsa, uning tomonini toping.

    A) $\sqrt{2}$

    B) $\dfrac{\sqrt{2 + \sqrt{2}}}{2}$

    C) $\sqrt{2 - \sqrt{2}}$

    D) 1

17. Uchburchakli piramidaning yon yoqlari asos tekisligi bilan $60°$ li burchak tashkil etadi. Agar piramida asosining yuzi 40 ga teng bo'lsa, piramidaning to'la sirtini toping.

A) 72   B) 128   C) 120   D) 80

18. To'g'ri burchakli ABC uchburchakda $\angle A = 30°$ bo'lib, $AB=6$ sm li gipotenuzasini diametri qilib, doira chizildi. Hosil bo'lgan eng kichik segmentning yuzini toping.

A) $\dfrac{12\pi - 9\sqrt{3}}{4}$ B) 36π C) 18π

D) $\dfrac{6\pi - 9\sqrt{3}}{4}$

19. Talaba besh yilda 31 ta imtihon topshirdi. U har keyingi yilda oldingi yildagiga qaraganda ko'p imtihon topshirgan. Beshinchi kursda birinchi kursdagidan 3 marta ko'p imtihon topshirgan bo'lsa, to'rtinchi kursda nechta imtihon topshirgan?

A) *9*   B) *8*   C) *7*   D) *6*

20. $\sqrt[10]{(15^{10} - 10^{10}) : (3^{10} - 2^{10})}$ ni hisoblang.

A) *25*   B) *5*   C) *8*   D) *9*

21. $3ax - 6x^2 - 8 + x^3$ ko'phad to'la kub bo'ladigan barcha a larni toping.

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

22. $x^2 + y^2 + 8x - 2y - 8 = 0$ aylana va $x + y = 4$ to'g'ri chiziqning kesishish nuqtalarini toping.

A) $(0;4)$, $(-1;5)$ B) $(3;2)$, $(5;-1)$
C) $(4;9)$, $(-5;1)$ D) $(2;1)$, $(-2;1)$

23. $y = x^2 - 4x - 1$ funksiyaga $(x \le 2)$teskari funksiyani ko'rsating.

A) $y = 2 - \sqrt{x+5}$ B) $y = 5 - \sqrt{2-x}$
C) $y = 2 - \sqrt{x-5}$ D) $y = 2 + \sqrt{x+5}$

24. $a > 2$ da $||x+1| - 2| = a$ tenglama nechta yechimga ega?

A) *2*   B) *ildizga ega emas*   C) *3*   D) *4*

25. $2^{x^2 - 16} \le 1$ tengsizlikni yeching.

A) $[-4; 4]$ B) $(-2; 2)$ C) $(0; 2)$
D) $[0; 4)$

26. $|x+1| = |x-1|$ tenglamaning ildizlarini toping.

A) *-1; 0*   B) $\emptyset$ C) *-1; 1*   D) *0*

27. ABC uchburchakda BH -balandlik, CM - mediana, $MH=12$ bo'lsa, AB ni toping.

A) *20*   B) *12*   C) *24*   D) *28*

28. Agar to'g'ri to'rtburchak kichik tomoni $a = 10\sqrt{2}$ bo'lsa, uning ixtiyoriy burchagidan katta tomonga o'tgan bissektrisasi uzunligi qancha?

A) *15*   B) *20*   C) *30*   D) *10*

29. $y = \dfrac{2}{\sqrt[4]{2x + 5}}$ funksiyaning boshlang'ich funksiyasini toping.

A) $\dfrac{4}{3}\sqrt[4]{2x + 5} + c$

B) $\dfrac{8}{3}\sqrt[4]{(2x + 5)^3} + c$

C) $-\dfrac{4}{3}\sqrt[4]{(2x + 5)^3} + c$

D) $\dfrac{4}{3}\sqrt[4]{(2x + 5)^3} + c$

30. $\begin{cases} 2x - 1 > x, \\ x^2 - 7x + 6 > 0, \\ 2^x < 128 \end{cases}$ tengsizliklar sistemasini yeching.

A) $(-\infty;\ 6) \cup (7;\ \infty)$
B) $(7;\ \infty)$
C) $(6;\ 7)$
D) $(-\infty;\ 6)$

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. Hisoblang va o'tkazishni bajaring:
$27_{10} + 111_2 \rightarrow x_2$

A) 100010_2 B) 100011_2 C) 100110_2
D) 100111_2

33. Tasvirli fayllarning kengaytmasi keltirilgan qatorni aniqlang.

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

34. MS Excelning A5:C12 katakchalar blokida nechta katakcha bor?

A) *22 ta*   B) *18 ta*   C) *21 ta*   D) *24 ta*

35. Tashkil etish texnologiyasiga ko'ra web-sahifalar necha va qanday turga bo'linadi?

     A) *2 turga: statik, dinamik*

     B) *3 turga: statik, dinamik, interaktiv*

     C) *4 turga: statik, dinamik, interaktiv, input type*

     D) *2 turga: input type va interaktiv*

36. Paskalda quyidagi ifoda a=5, b=15, c=2 bo'lsa qanday natija beradi?

(a+b div c * 4) mod 5 div 3
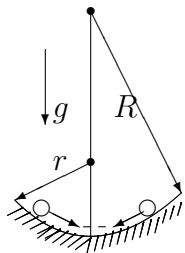
A) *4*   B) *1*   C) *3*   D) *2*

FIZIKA

1. Momaqaldiroq ovozi chaqmoq chaqnagandan 8 sekund keyin eshitildi. Chaqmoq kuzatuvchidan qancha masofada (km) chaqnagan? Tovush tezligi 343 m/s.

A) *2,7*   B) *2700*   C) *2744*   D) *20*

2. 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) $6{,}5{\cdot}10^8$ D) $5{\cdot}10^8$

3. Temir bo'lagining suvdagi og'irligi 9,8 N, zichligi 7800 kg/m³ bo'lsa, temir bo'lagining hajmini (sm³) toping.

A) *14,7*   B) *125*   C) *1,47*   D) *147*

4. Havoda massasi 2 kg bo'lgan, 7,5 m/s² tezlanish bilan tushayotgan jismga ta'sir qiluvchi havoni qarshilik kuchinini (N) toping.

A) *7,5*   B) *8*   C) *2,5*   D) *5*

5. Tebranish konturida sig'imi 80 pF bo'lgan kondensator va induktivligi 20 μH g'altak bor. Konturning xususiy tebranishlari davri (μs) qanday?

A) *0,45*   B) *0,20*   C) *0,50*   D) *0,25*

6. Tezligi 10 m/s, massasi 10 kg bo'lgan granata ikki bo'lakka ajraldi. Katta bo'lakning tezligi 25 m/s bo'lib granataning harakat yo'nalishida, kichik bo'lakning tezligi 12,5 m/s bo'lib qarama-qarshi yo'nalishda harakatlansa, bo'laklarning massalarini (kg) toping.

A) *9 va 1*   B) *8 va 2*   C) *6 va 4*   D) *7 va 3*

7. Qanday sharoitda sochuvchi linzaning optik kuchi musbat bo'la oladi? n_1 - atrof muhitning optik zichligi, n_2 - linza yasalgan moddaning optik zichligi.

     A) *sochuvchi linzaning optik zichligi musbat bo'la olmaydi*

     B) $n_1 > n_2$

     C) $n_1 < n_2$

     D) $n_1 = n_2$

8. 0,5 g vodorod va 32 g kislorod aralashmasining bosimi 93 kPa, harorat esa 280 K bo'lgandagi zichligi (kg/m³) toping. Vodorod va kislorodning molyar massasi mos ravishda 2 va 32 g/mol.

A) *2*   B) *1,04*   C) *0,5*   D) *1,5*

9. Kon elektrovozi poyezdni 0,1 m/s² tezlanish bilan tortib bormoqda. Poyezdning massasi 60 t. Harakatga qarshilik kuchi 4120 N. Tortish kuchini (kN) toping.

A) *12*   B) *10,12*   C) *11*   D) *11,12*

10. Ballonda 15°C haroratli gaz bor. Agar gazning η=40% i chiqib ketib, bosimi 1,7 marta kamaygan bo'lsa, harorati (°C) qancha kamaygan bo'ladi?

A) *10,1*   B) *5,65*   C) *7,52*   D) *5,04*

11. Shaxta tubida barometr 82 sm.sim.ust. ni, yer sirtida 78 sm.sim.ust. ni ko'rsatayotgan bo'lsa, shaxtaning chuqurligini (m) aniqlang.

A) *48*   B) *480*   C) *4,8*   D) *40*

12. 18 V kuchlanish tarmog'iga qarshiligi 40 Ω va 50 Ω ga teng bo'lgan rezistorlar ketma-ket ulandi. Ikkinchi rezistorning uchlaridagi potensiallar farqini (V) toping.

A) *9*   B) *8*   C) *10*   D) *12*

13. Harorati 20°C va bosimi 100 kPa bo'lgan 1,45 m³ havo suyuk holatga keltirildi. Agar suyuk havoning zichligi 860 kg/m³ bo'lsa, u qanday hajmni (l) egallaydi. Havoning molyar massasi 29 g/mol.

A) *1,5*   B) *2*   C) *4*   D) *3*

14. Induksiya vektorining moduli 100 mT bo'lgan bir jinsli magnit maydonining kuch chiziqlariga 30° burchak ostida 2 km/s tezlik bilan uchib kirgan zaryadlangan zarrachaga maydon tomonidan ta'sir etuvchi kuchni (mN) toping. Zarrachaning zaryad miqdori 2 μC ga teng.

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

15. Massa 70 kg bo'lgan odam trapetsiya shaklidagi taxtani o'rtasida o'tiribdi. Taxta uzunligi 8 m bo'lgan 2 ta arqonlarga osilgan. Tebranish vaqtida odam muvozanat vaziyatdan 6 m/s tezlik bilan o'tadi. Shu momentda har bir arqonning taranchlik kuchi (N) qanday?

A) *600*   B) *400*   C) *450*   D) *500*

16. Atom holatidagi kislorod zarrachalarining 138°C dagi o'rtacha kvadratik tezliklarini (m/s) aniqlang. M_{atom}=16 g/mol, R=8,3 $\dfrac{J}{K \cdot mol}$

A) *800*   B) *650*   C) *840*   D) *540*

17. Silindrik idishga bir xil massali suv (ρ_{suv}=1·10³ kg/m³) va simob (ρ_{sim}=13,6·10³ kg/m³) qo'yildi. Idishdagi suyuqliklar ustunining umumiy balandligi 143 sm. Idish tubiga bo'lgan bosim qancha (kPa)?

A) *14,6*   B) *15,4*   C) *26*   D) *10*

18. Mashina birinchi 10 minutda 500 m yo'l bosdi. U shu tezlik bilan 0,5 soatda qancha yo'l (m) o'tadi?

A) *166,6*   B) *3000*   C) *1500*   D) *1667*

19. Berilgan grafikdan foydalanib, α=23° bo'lganda jism tezligini (m/s) toping. $sin23°$=0,39; $cos23°$=0,92

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

20. Yashil shisha orqali qizil harflarga qaralsa, ular qanday rangda ko'rinadi?

A) *qizil*   B) *qora*   C) *yashil*   D) *jigarrang*

21. Induktivligi 0,2 H bo'lgna g'altakdan 10 A tok o'tmoqda. G'altak ichidagi magnit maydon energiyasini (J) aniqlang.

A) *10*   B) *0,1*   C) *100*   D) *1*

22. Agar ionlagichning ishlashini o'zgartirmay turib plastinkalar yaqinlashtirilsa, to'yinish tokining kuchi qanday o'zgaradi?

A) *o'zgarmaydi*

B) *ortadi*

C) *ortishi ham, kamayishi ham mumkin*

D) *kamayadi*

23. Massasi 11 t bo'lgan trolleybus 36 km/soat tezlik bilan harakatlanmoqda. Agar kuchlanish 550 V va FIK 80% bo'lsa, dvigatel chulg'amidagi tok kuchini (A) toping. Harakatlanishga qarshilik koeffitsiyenti 0,02 ga teng.

A) *45*   B) *25*   C) *35*   D) *50*

24. Gaz boshlangich 6 l hajmdan 4 l gacha izotermik siqilgan. Bunda uning bosimi 2·10⁵ N/m² ga ortgan. Gazning boshlang'ich bosimi (N/m²) qanday?

A) *20·10⁵*   B) *4·10⁶*   C) *2·10⁵*   D) *4·10⁵*

25. Rasmdagi har bir kondensatorning sig'imi C ga teng. M va N nuqtalar orasidagi potensiallar farqi 120 V bo'lsa, K va L nuqtalar orasidagi potensiallar farqini (V) toping.

A) *60*   B) *40*   C) *20*   D) *30*

26. Gidrostansiyaning quvvati 75,5 MW. Agar stansiyaning FIK i 75% bo'lsa va to'g'on suv sathini 10 m balandlikka ko'tarsa suvning sarflanishi (m³/s) nimaga teng?

A) *900*   B) *1000*   C) *850*   D) *800*

27. Ikki kosmik kema $v_1 = v_2$=0,75c tezlik bilan qarama-qarshi yo'nalishda harakatlanmoqda. Birining 2-siga nisbatan tezligi qanday?

A) *0,86c*   B) *c*   C) *0,9c*   D) *0,96c*

28. Mikroskop linzalarining fokus masofalari mos ravishda 1,5 sm va 2,5 sm, linzalar orasidagi masofa 30 sm. Bunday mikroskop obyektni necha marta kattalashtirib ko'rsatadi?

A) *200*   B) *300*   C) *100*   D) *400*

29. Natriy sariq nurlarining havodagi to'lqin uzunligi 589 μm. Shu nurning shishadagi to'lqin uzunligini (m) toping. Shishaning sindirish ko'rsatkichi 1,56 ga teng.

    A) $34 \cdot 10^{-7}$ B) $3,78 \cdot 10^{-7}$ C) $3,9 \cdot 10^{-7}$
    D) $5 \cdot 10^{-7}$

30. Sharcha nov ichida kuchsiz tebranmoqda. Novning bir yoni r egrilikka, ikkinchi yoni R egrilikka ega. Tebranishlarning chap va o'ng tomondagi amplitudalari nisbatini aniqlang.

    A) $\sqrt{\dfrac{r}{R}}$ B) $\dfrac{r^2}{R^2}$ C) $\dfrac{r}{R}$ D) $\dfrac{R-r}{R+r}$

31. Nyutonning ikkinchi qonunini impuls yordamida ifodalangan formulasini belgilang.

    A) $F = m\dfrac{v}{t}$ B) $F \cdot t = \Delta p$ C) $F = ma$
    D) $F = \dfrac{dp}{dt}$

32. Bir jinsli elektr maydonida α-zarrachasi kuchlanganlik vektorining yo'nalishi bo'ylab ko'chgan bo'lsa uning potensial energiyasi qanday o'zgaradi?

    A) *ortqdi*   B) *o'zgarmaydi*   C) *kamayadi*
    D) *avval ortib so'ngra kamayadi*

33. 500 W quvvatli elektroplitka kuchlanish 127 V li sanoat tarmog'iga (ν=50 Hz)ulangan. Plitka zanjirida tok kuchining (A) vaqtga bog'lanish tenglamasini ko'rsating. Kuchlanish sinus qonuniga ko'ra o'zgaradi deb hisoblang.

    A) $I = 4sin100\pi t$ B) $I = 5,6sin50t$
    C) $I = 5,6sin100\pi t$ D) $I = 127sin100\pi t$

34. Ichki qarshiligi 0,5 Ω bo'lgan tok manbaiga 3 Ωli tashqi qarshilik ulanganda, tok manbayi qisqichlaridagi kuchlanish 6 V bo'lgan. Manbaning to'la quvvatini (W) aniqlang.

    A) *6*   B) *14*   C) *18*   D) *12*

35. Ko'ndalang kesim yuzasi 20 mm², 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) $4 \cdot 10^{21}$ B) $2,2 \cdot 10^{21}$ C) $2 \cdot 10^{20}$
    D) $1,2 \cdot 10^{21}$

36. Kislorod atomining massasi uning yadrosi massasidan necha marta katta?

    A) ≈ 1840 B) ≈ 1 C) $\approx 10^5$
    D) $\approx 16 \cdot 1840$

INGLIZ TILI

1. Choose the answer which correctly completes the sentence.
   Heavy rains burst Whitton Dam two days ago. The flooded houses are still ...

   A) *evacuate*   B) *evacuated*   C) *evacuating*
   D) *being evacuated*

2. Choose the answer which correctly completes the sentence.
   Neither David nor Jane ... to University.

   A) *go*   B) *are going*   C) *going*   D) *goes*

3. Choose the answer which correctly complete the sentence.
   You shouldn't get offended. You ... Nick. He didn't mean to hurt you.

   A) *mustn't understand*
   B) *must misunderstand*
   C) *must be understanding*
   D) *must have misunderstood*

4. Choose the answer which correctly completes the sentence.
   She noticed him ... away from the house.

   A) *was running*   B) *to run*   C) *run*   D) *ran*

5. Choose the answer which correctly completes the sentence.
   The class got ... when the professor entered.

   A) *quietly*   B) *quieting*   C) *quitness*
   D) *quiet*

6. Choose the answer which correctly complete the sentence.
   They were tired because they ... hard all morning.

   A) *had studied*   B) *studied*
   C) *had been studying*   D) *were studying*

7. Choose the answer which correctly completes the sentence.
Let's go to Mirabella's tonight ... you haven't been there before.
A) *if*   B) *when*   C) *unless*   D) *until*

8. Choose the answer which correctly completes the sentence.
Alice is not very happy at her present job as a nurse. She wishes she ... to a nursing school.
A) *didn't do*   B) *hadn't gone*   C) *had gone*
D) *went*

9. Choose the answer which correctly completes the sentence.
Dan's goldfish died when he was away on holiday. His sister forgot ... them.
A) *to feed*   B) *to be fed*   C) *feeding*
D) *being fed*

10. Choose the answer which correctly completes the sentence.
I met Caty ... chance when I was shopping in town.
A) *by*   B) *with*   C) *for*   D) *in*

11. Choose the answer which correctly complete the sentence.
The announcement says that ... who has lost his credit card must declare about it immediately.
A) *nobody*   B) *anyone*   C) *some*
D) *someone*

12. Choose the answer which correctly completes the sentence.
You should have got ... the bus. That was your stop!
A) *on*   B) *into*   C) *off*   D) *out of*

13. Choose the answer which correctly completes the sentence.
Now when he's back to his home town it feels ... to be working in his old school.
A) *stranger*   B) *strangeness*   C) *strange*
D) *strangely*

14. Choose the answer which correctly completes the sentence.
The extent of Christina's knowledge on various complex subjects ... us.
A) *surprises*   B) *to surprise*   C) *surprising*
D) *surprise*

15. Choose the answer which correctly completes the sentence.
You can't have good crops unless you ... the soil. It is usually poor without care and cultivation.
A) *cultivate*   B) *will cultivate*
C) *don't cultivate*   D) *will not cultivate*

16. Choose the answer which correctly complete the sentence.
Helen is ... a busy person that she never feels bored.
A) *so*   B) *so as*   C) *such*   D) *as*

17. Choose the answer which correctly completes the sentence.
Most of the forest ... cut down and the trees remaining are now under threat.
A) *have been*   B) *were*   C) *has been*
D) *had been*

18. Choose the answer which correctly completes the sentence.
On Sunday she went shopping at ... Macy's and bought an expensive overcoat.
A) *-*   B) *a*   C) *the*   D) *an*

19. Choose the answer which correctly completes the sentence.
He's always found her to be ... friendly.
A) *exceptional*   B) *exceptionally*
C) *excepted*   D) *except*

20. Choose the answer which correctly completes the sentence.
The beekeeper has observed ... at the approach of a thunderstorm.
A) *bees enraging that*   B) *enraging the bees*
C) *that bees become enraged*
D) *become enraged the bees*

21. Choose the answer which correctly completes the sentence.
I would go out more often if I ... to work so much.
A) *didn't have*   B) *don't have*
C) *wouldn't have*   D) *hadn't*

22. Choose the answer which correctly complete the sentence.
We usually have ... breakfast at 8 o'clock.
A) *an*   B) *the*   C) *a*   D) *-*

23. Choose the answer which correctly completes the sentence.

I am afraid there are . . . vacancies in the company at present.

A) *none*   B) *neither*   C) *no*   D) *not*

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

In the past, before technology was used to monitor the weather accurately, people looked at the skies, watched how animals and plants behaved, and relied on signs and superstitions to forecast the weather. Indeed, some people still believe that, when cows lie down or a cat sneezes, it is going to rain. Nowadays, scientists who study the weather, called meteorologists, use many different methods to make their forecasts. Satellites monitor our weather and send information to computers at special processing stations. On the ground, weather stations all over the world record wind speeds and directions, temperature, clouds and air pressure.

24. It is clear from the passage that reasonably accurate weather forecasting . . .

A) *is just one stage in an effort to control the climate.*
B) *does not require much technological assistance.*
C) *is of little importance to most people in the world.*
D) *is now available worldwide.*

25. As is pointed out in the passage, before the coming of technology, . . .

A) *the methods used to forecast the weather are all now regarded as completely useless.*
B) *several methods were used in an effort to forecast the weather.*
C) *the only way to learn about the weather was through the behaviour of plants and animals.*
D) *people weren't really interested in weather conditions.*

26. According to the passage, it is now possible, with the aid of technology, to forecast the weather, but . . .

A) *changing wind speeds can affect predictions.*
B) *long-term forecasts are still far from accurate.*
C) *much relevant material is never processed.*
D) *it is still a very complex process.*

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

Andrew Murphy former (27). . . director of Delco Electronics, has pleaded "Not Guilty" to charges that he stole £ 5 million from the company. He claims not to know where the money went. He has suggested (28). . . an accountant took the money. Investigators consider it unlikely that anyone else in the company could have committed the crime.

27.

A) *managing*   B) *manage*   C) *managed*
D) *to manage*

28.

A) *where*   B) *who*   C) *what*   D) *that*

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

A forest is a thickly wooded area. Forests have a wide (29). . . of plants and animals living among the trees. Forests that like cooler climates (30). . . largely in the northern hemisphere, far north of the equator. Forest floors are shady places and it can be hard (31). . . plants to grow.

29.

A) *vary*   B) *various*   C) *variety*
D) *variable*

30.

A) *found*   B) *were found*   C) *are found*
D) *find*

31.

A) *from*   B) *for*   C) *of*   D) *by*

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

One chilly autumn morning in 1945, five thousand shoppers crowded the pavements outside Gimbles Department Store in New York City. The day before, Gimbels had taken out a full-page newspaper advertisement in the *New York Times*, announcing the sale of the first ballpoint pens in the United States. Within six hours, Gimbels had sold its entire stock of ten thousand ballpoints at $12.50 each-approximately $130 at today's prices.

In fact this "new" pen was not new after all, and was just the latest development in a long search for the best way to deliver ink to paper. In 1884 Lewis Waterman had patented the fountain pen, giving him the sole rights to manufacture it. This marked a significant leap forward in writing technology, but fountain pens soon became notorious for leaking. In 1888, a leather tanner named John Loud devised and patented the first "rolling-pointed marker pen" for marking leather. Loud's design contained a reservoir of ink in a cartridge and a rotating ball point that was constantly bathed on one side with ink.

Loud's pen was never manufactured, however, and over the next five decades, 350 additional patents were issued for similar ball-type pens, though none advanced beyond the design stage. Each had their own faults, but the major difficulty was the ink: if the ink was thin, the pens leaked, and if it was too thick, they clogged. Depending on the climate or air temperature, sometimes the pens would do both. Almost fifty years later, Ladislas and Georg Biro, two Hungarian brothers, **came up with** a solution to this problem. In 1935 Ladislas Biro was working as a journalist, editing a small newspaper. He became frustrated by the amount of time he wasted filling fountain pens with ink and cleaning up ink smudges. Ladislas and Georg set about making models of new pen designs and creating better inks to use in them. Ladislas observed the ink in newspaper printing dried rapidly, leaving the paper dry and smudge-free. He was determined to construct a pen using the same type of ink. However, the thicker ink would not flow from a regular pen nib so he had to develop a new type of point. Biro came up with the idea of fitting his

pen with a tiny ball bearing in its tip. As the pen moved along the paper, the ball bearing rotated and picked up ink from the ink cartridge which it delivered to the paper.

32. The problem with the ballpoint pens invented between 1888 and 1935 was that ...

     A) *they cost a great deal of money to manufacture*

     B) *they could not write on ordinary paper*

     C) *they were affected by weather conditions*

     D) *the technology to manufacture them did not exist*

33. What does **"came up with"** in bold mean?

A) *to get rid of*   B) *to move towards*

C) *to reject*   D) *to suggest*

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) *Cyrus*   B) *Darius I*   C) *Persepolis*

D) *Combyses*

35. Who was the predecessor of Cambyses?

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

D) *Cyrus*

36. Who were responsible for the provinces?

A) *the governors*   B) *the subjects*

C) *the Egyptians*   D) *the King*