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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: 1000034

Toshkent – 2014

MATEMATIKA (INFORMATIKA BILAN)

1. $|\log_{2013} x - 2| + |\log_{2013} x - 4| < 4$ tengsizlikni yeching.

   A) $\{2013; 2013^5\}$
   B) $(2013; 2013^5)$
   C) $\emptyset$
   D) $\{2013\}$

2. $y = \sqrt{16 - x^2}$ funksiyaning grafigi bo‘lgan egri chiziq uzunligini toping.
   A) 8π B) 4π C) 6π D) *aniqlab bo‘lmaydi*

3. $\overrightarrow{a}(1; -1)$ va $\overrightarrow{b}(-2; m)$ vektorlar kollinear. m ning nimaga tengligini toping.
   A) *2* B) *-2* C) *1* D) *-3*

4. Uchburchak tomonlari 5, 6, 7 sm. Uning yuzasini (sm^2) toping.
   A) $5\sqrt{5}$ B) *8* C) $6\sqrt{6}$ D) *6*

5. Agar ABC o‘tkirburchakli uchburchakda AB=0,7; BC=0,9; $sinB$=0,8 bo‘lsa, uchinchi tomonning kvadratini toping.
   A) *0,544* B) *0,541* C) *0,543* D) *0,519*

6. $f(x) = \dfrac{1}{\left|x^2 + 2x + 1\right| + 2} + 1,5$ funksiyaning eng katta qiymatini toping.
   A) *0,5* B) *1,5* C) *2* D) *2,5*

7. $f(x) = x^2 + x - 1$ funksiya uchun $f'(x) = 0$ bo‘lsa, x ning qiymatini toping.
   A) $-\dfrac{2}{3}$ B) $\dfrac{1}{3}$ C) $-\dfrac{3}{4}$ D) $-\dfrac{1}{2}$

8. To‘rtburchakli muntazam prizmaga ichki chizilgan silindr yon sirtining prizma yon sirtiga nisbatini toping.
   A) $\dfrac{\pi}{2}$ B) 4 C) 2 D) $\dfrac{\pi}{4}$

9. $2^{x+4} + 3 \cdot 2^{x-2} \geq 67$ tengsizlikni yeching.

   A) $[3; \infty)$
   B) $(-\infty; 2)$
   C) $[2; \infty)$
   D) $[4; \infty)$

10. Sotuvchi kilosi 1500 so‘mdan 100 kg olma sotib oldi. 20 kg maydaroq olmalarni sotuvchi 1750 so‘mdan, qolganlarini 2000 so‘mdan sotdi. Bu tijoratda sotuvchi necha foiz foyda qilgan?
    A) *27* B) *25* C) *30* D) *35*

11. Yuzi 120 sm^2, diagonali esa 17 sm bo‘lgan to‘g‘ri to‘rtburchakning tomonlarini (sm) toping.
    A) *16; 12* B) *30; 4* C) *12; 10* D) *15; 8*

12. $\sqrt{x^2 + 11} - \sqrt{x^2 - 9} = 2$ tenglamani yeching. $(x \in R)$
    A) *3* B) *-5; 5* C) *-3* D) *5; 3*

13. $y = 2cos^2\dfrac{x}{2} - tgx \cdot ctgx$ funksiyaning qiymatlari to‘plamini toping.
    A) $[1; 3]$ B) $[0; 3]$ C) $(-1; 0) \cup (0; 1)$
    D) $(1; 2) \cup (2; 3)$

14. 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) *3, 4* B) *1, 4* C) *1, 2* D) *1, 3*

15. $\dfrac{\left(\dfrac{1}{a} + \dfrac{1}{b} - \dfrac{2c}{ab}\right)(a + b + 2c)}{\dfrac{1}{a^2} + \dfrac{1}{b^2} + \dfrac{2}{ab} - \dfrac{4c^2}{a^2b^2}}$ ifodani soddalashtiring va uning son qiymatini toping. a=7,4; $b = \dfrac{5}{37}$.
    A) $\dfrac{1}{2}$ B) $\dfrac{4}{5}$ C) *0* D) *1*

16. x, y, z - butun sonlar bo‘lib, $\begin{cases} \frac{xy}{x-y} = -6 \\ \frac{yz}{y-z} = -\frac{15}{2} \\ \frac{xz}{x-z} = -\frac{10}{3} \end{cases}$ bo‘lsa, $x - y - z =$?
    A) -6 B) 10 C) -8 D) 6

17. Ikkita doira radiuslari 1:2 nisbatda. Katta doira aylanasining uzunligi 8π. Kichik doira yuzini toping.
    A) 8π B) 2π C) 4π D) π

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

A) 18π B) $\frac{6\pi - 9\sqrt{3}}{4}$ C) 36π

D) $\frac{12\pi - 9\sqrt{3}}{4}$

19. Tekislikdan h uzoqlikda joylashgan nuqtadan tekislikka o‘tkazilgan va tekislik bilan 30° li burchak hosil qiladigan og‘maning uzunligini toping.

A) $\sqrt{2}h$ B) $2h$ C) $1,5h$ D) $\sqrt{3}h$

20. $\left(\sqrt{m(1-m)} + \frac{\sqrt{m^3}}{\sqrt{1-m}} : \left(\frac{1}{1+\sqrt{m}} + \frac{\sqrt{m}}{1-m}\right)\right) : \sqrt{m(1-m)}$ ifodani soddalashtiring. $(m \in (0;1))$

A) $1-m$ B) $\frac{1}{m}$ C) $1+m$ D) *1*

21. $||x-4|-7| > 5$ tengsizlikning eng kichik musbat va eng katta manfiy butun yechimlari ayirmasini toping.

A) -12 B) *12* C) -6 D) 6

22. 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) *83* B) *210* C) *420* D) *81*

23. $\sqrt[3]{x^2} - 3\sqrt[3]{x} - 4 = 0$ tenglamaning katta va kichik ildizlari ayirmasini toping.

A) *68* B) *60* C) *65* D) *63*

24. $\sqrt[3]{x+2} + \sqrt[3]{x+3} + \sqrt[3]{x+4} = 0$ tenglama ildizlarining yig‘indisini toping.

A) *2* B) *-3* C) *1* D) *-5*

25. $f(x) = cosx + e^x$, $F(x)-?$

A) $-cosx + e^x + c$ B) $-sinx + e^x + c$

C) $sinx + e^x + c$ D) $sinx - \frac{1}{x}e^x + c$

26. Kubga tashqi chizilgan sharning hajmi $\frac{32}{3}\pi$ ga teng. Kubning diagonaliga tegishli bo‘lmagan uchlaridan diagonalgacha bo‘lgan masofani toping.

A) $\frac{4\sqrt{2}}{9}$

B) $\frac{4\sqrt{2}}{\sqrt{3}}$

C) $\frac{3\sqrt{3}}{8}$

D) $\frac{3\sqrt{2}}{4}$

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

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

28. $x(x+1)(x-1)(x+2) = 24$ tenglamani yeching.

A) $x_1 = x_2 = 1$ B) $x_1 = -1$; $x_2 = -2$
C) $x_1 = 0$; $x_2 = 1$ D) $x_1 = -3$; $x_2 = 2$

29. $\frac{1}{2} + \frac{1}{24} + \frac{1}{48} + \frac{1}{80} + \frac{1}{120} + \frac{1}{168}$ ni hisoblang.

A) $\frac{33}{56}$ B) $\frac{125}{333}$ C) $\frac{15}{28}$ D) $\frac{33}{76}$

30. Basseyn ikkita quvur bilan 7,5 soatda to‘ldiriladi. Birinchi quvurning yolg‘iz o‘zi basseynni ikkinchi quvurning yolg‘iz o‘zi to‘ldirganidan 8 soat tezroq to‘ldiradi. Birinchi quvurning alohida o‘zi basseynni necha soatda to‘ldira oladi?

A) *16* B) *15* C) *15,5* D) *12*

31. 63 kilobayt axborotda nechta belgi bor?

A) *516096 ta* B) *516098 ta* C) *64512 ta*
D) *64500 ta*

32. Agar A=rost, B=yolg‘on, C=5, D=6 bo‘lsa, quyidagilardan qaysi birining natijasi yolg‘on bo‘ladi?

A) $A \vee B \wedge (C = D)$
B) $A \wedge B \vee (C > D)$
C) $\neg A \vee B \vee (C < D)$
D) $A \wedge \neg B \vee (C < D)$

33. Windows yo‘lboshlovchisini ishga tushirish uchun Пуск menyusidagi qaysi bo‘lim tanlanadi?
A) *Программы* B) *Документы* C) *Найти*
D) *Настройка*

34. Ma’lumotlar ombori undagi axborot shakliga ko‘ra qanday turlarga ajratiladi?
A) *hujjatli va faktografik*
B) *relyatsion va to‘rli* C) *matnli va grafik*
D) *raqamli va analog*

35. Kompyuter ekranida aks etgan holatni rasmga olish uchun qaysi klavishlardan foydalaniladi?
A) *Shift + Delete* B) *Ctrl + Alt + Delete*
C) *Print Screen / Sys Rq* D) *Ctrl + F12*

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. Molekulalari konsentratsiyasi $2{\cdot}10^{24}$ m^{-3} ga teng bo‘lgan idishdagi gazning bosimi $3{\cdot}10^{4}$ N/m^2 ga teng. Bitta molekulaning o‘rtacha kinetik energiyasini (J) toping.
A) $2{,}75{\cdot}10^{-20}$ B) $2{,}5{\cdot}10^{-20}$ C) $3{\cdot}10^{-21}$
D) $2{,}25{\cdot}10^{-20}$

2. Og‘irligi 100 N bo‘lgan jismning zichligi 500 kg/m^3 bo‘lgan suyuqlikdagi og‘irligi 60 N. Boshqa bir suyuqlikdagi og‘irligi esa 80 N ga teng. Ikkinchi suyuqlikning zichligini (kg/m^3) toping.
A) *150* B) *125* C) *250* D) *1000*

3. Massasi 8 kg bo‘lgan snaryad diametri 100 mm bo‘lgan to‘p stvolidan 600 m/s tezlik bilan uchib chiqdi. Stvoldagi porox gazining o‘rtacha bosimi 1 MPa. snaryadning stvoldagi harakat vaqtini (s) aniqlang.
A) *0,61* B) *0,92* C) *0,55* D) *0,7*

4. $N = N_0 \cdot 2^{-t/T}$
Radioaktiv parchalanish qonunida N nimani bildiradi?
A) *radioaktiv parchalanmagan yadrolar sonini*
B) *majburiy parchalangan yadrolar sonini*
C) *radioaktiv parchalangan yadrolar sonini*
D) *tabiiy parchalangan yadrolar sonini*

5. Berilgan inersial sanoq sistemasida jism massasining uning harakat tezligiga bog‘liqligi qanday ifodalanadi?
A) $m = \dfrac{m_0}{\sqrt{1 - \dfrac{v^2}{c^2}}}$
B) $\Delta m = \dfrac{\Delta E}{c^2}$
C) $m = \rho V$
D) $m = \dfrac{2E_k}{v^2}$

6. Ikki sharchaga bir xil $2{\cdot}10^{-8}$ Kl zaryad berilgan zaryadlar vakuumda 10^{-3} N kuch bilan ta’sirlashmoqda. Ular orasidagi masofani (sm) toping.
A) $\sqrt{6}$ B) *6* C) *12* D) *10*

7. Chang‘ichi 0,2 m/s^2 tezlanish bilan harakatlanib, uzunligi 50 m bo‘lgan qiyalikni 10 s da o‘tdi. Uning qiyalik boshidagi tezligi (m/s) qanday bo‘lgan?
A) *3* B) *2* C) *4* D) *5*

8. Gaz boshlangich 6 l hajmdan 4 l gacha izotermik siqilgan. Bunda uning bosimi $2{\cdot}10^{5}$ N/m^2 ga ortgan. Gazning boshlang‘ich bosimi (N/m^2) qanday?
A) $20{\cdot}10^{5}$ B) $2{\cdot}10^{5}$ C) $4{\cdot}10^{5}$ D) $4{\cdot}10^{6}$

9. 200 V kuchlanishgacha zaryadlanib tok manbaidan ajratilgan 10 μF sig‘imli kondensator qoplamalari orasidan dielektrik singdiruvchanligi ε=2,5 bo‘lgan dielektrikni tortib olish uchun qancha ish (J) bajarish kerak?
A) *1,25* B) *0,3* C) *3* D) *5*

10. Agar shishadan tayyorlangan qavariq linzaning fokus masofasi shu linzaning egrilik radiusiga teng bo‘lsa, shishaning sindirish ko‘rsatkichi nimaga teng?
A) *2* B) *1,2* C) *1,5* D) *3*

11. Foton energiyasi 3 marta oshsa uning to‘lqin impulsi va to‘lqin uzunligi necha marta ortadi?
A) *1,5 va 1/3 marta* B) *3 va 1/3 marta*
C) *3 va 1,5 marta* D) *3 va 3 marta*

12. 20 g massali o‘q 600 m/s tezlik bilan devorga kelib urildi. Agar devorning 4 sm gacha kirib borgan bo‘lsa, devor qarshilik kuchi bajargan ishni (kJ) toping. O‘qning oxirgi tezligi nolga teng.
A) *3,6* B) *72* C) *36* D) *7,2*

13. 2,5 Tl induksiyali bir jinsli magnit maydon o‘tkazgichdagi tok kuchi 0,5 A bo‘lganda induksiya vektoriga 30° burchak ostida joylashgan 50 sm uzunlikdagi o‘tkazgichga qanday kuch (N) bilan ta’sir qiladi?
A) *0,3* B) *0,33* C) *0,31* D) *0,35*

14. 5 kg massali yuk qiya tekislikdan 20 N kuch ta’sirida ko‘tarildi. Qiya tekislikning uzunligi 10 m, balandligi 3 m. Qiya tekislikning foydali ish koeffitsienti (%) nimaga teng?
A) *50* B) *75* C) *60* D) *90*

15. Ma’lum tezlik bilan harakatlanadigan jismning kinetik energiyasi 50 MJ, impulsi 10 kJ·m/s bo‘lsa, massasini (kg) toping.
A) *1* B) *2* C) *0,5* D) *1,5*

16. Birinchi o‘tkazgichning uzunligi 2 m, ko‘ndalang kesim yuzasi 2 mm^2, ikkinchi o‘tkazgichning uzunligi 4 m, ko‘ndalang kesim yuzasi 1 mm^2. Bu o‘tkazgichlarning qarshiliklari R_1 va R_2 qanday munosabatda bo‘ladi?
A) $R_2 = 2R_1$ B) $R_2 = 4R_1$ C) $R_1 = 4R_2$
D) $R_1 = R_2$

17. Tebranish konturining induktivligi 0,01 μH, sig‘imi 400 pF. Konturdagi xususiy tebranishlar davri (ns) qanday?
A) *12,56* B) *2,00* C) *6,28* D) *4,00*

18. Jism radiusi 2 m bo‘lgan aylana bo‘ylab 180 rad/min burchak tezlik bilan harakatlanmoqda. Agar uning massasi 6 kg bo‘lsa, unga ta’sir qilayotgan markazga intilma kuchni (N) aniqlang.
A) *27* B) *64* C) *108* D) *36*

19. Chastotasi 5 MGs bo‘lgan to‘lqin suvga tushganida qanday chastotada (MGs) bo‘ladi?
A) *5* B) *6* C) *4* D) *3*

20. 220 V kuchlanishli elektr tarmoqqa ulangan elektr lampochkadan 1 A tok o‘tmoqda. Shu lampochkani 110 V kuchlanishli elektr tarmoqqa ulansa, undan qancha tok kuchi (A) o‘tadi?
A) *1* B) *0,5* C) *2* D) *3*

21. Yuqoriga a tezlanish bilan ko‘tarilayotgan havo sharidan t sekunddan so‘ng bir buyum tushib ketdi. Bu buyum qancha vaqtda yerga tushadi?
A) $\frac{t}{g}(2a + \sqrt{a^2 - ga})$
B) $\frac{t}{g}(2a + \sqrt{a^2 + ga})$
C) $\frac{t}{g}(a + \sqrt{a^2 + ga})$
D) $\frac{t}{g}(a - \sqrt{a^2 + ga})$

22. Quyida ifodalangan qonun qanday nomlanadi? **Agar jism bir necha kuch ta’sirida harakatlanayotgan bo‘lsa, har bir kuch boshqa kuchlar bilan birga yoki yakka o‘zi ta’sir qilayotganidan qat’iy nazar jismga hamma vaqt bir xil tezlanish beradi.**
A) *Nyutonning II qonuni*
B) *Inersiya qonuni*
C) *Impulsning saqlanish qonuni*
D) *Kuchlar ta’sirining mustaqillik qonuni*

23. Elementlari ketma-ket ulangan zanjirning o‘zgaruvchan tokka nisbatan to‘liq qarshiligi $\sqrt{R^2 + (\omega L - 1/\omega C)^2}$ ga teng. Bu zanjirning doimiy tokka nisbatan qarshiligi qanday?
A) R
B) $\sqrt{R^2 + (\omega C + 1/\omega L)^2}$
C) ∞
D) 0

24. Agar elastik muhitda tarqalayotgan to‘lqin muhit zarralari 140 marta tebranguncha, 70 m masofani bosib o‘tsa, bu to‘lqinning uzunligi (m) qancha?
A) *2* B) *1* C) *0,5* D) *20*

25. 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) *haroratning qandayligicha bog‘liq*
C) *2 marta kamayadi*
D) *2 marta oshadi*

26. Yerdan h balandlikda v tezlik bilan gorizontal otilgan jism L_1 masofaga tushsa yerdan $4h$ balandlikda $2v$ tezlik bilan gorizontal otilgan jism necha L_2 masofaga borib tushadi?
A) *3* B) *2* C) *4* D) *1*

27. 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) $R = H$ B) $R = 4H$ C) $R = H/2$
D) $R = 2H$

28. Metall o’tkazgichni qizdirsak, uning solishtirma elektr qarshiligi qanday o’zgaradi?
A) *kamayadi* B) *o’zgarmaydi*
C) *avval ortib so’ngra kamayadi* D) *ortadi*

29. Nima uchun izoxorik jarayonda gazning zichligi o‘zgarmaydi?
A) *bosim o‘zgargani uchun*
B) *massa va hajm o‘zgarmagani uchun*
C) *temperatura o‘zgargani uchun*
D) *bosim temperaturaga to‘g‘ri proporsionalligi uchun*

30. Qanday sharoitda sochuvchi linzaning optik kuchi musbat bo‘la oladi? n_1 - atrof muhitning optik zichligi, n_2 - linza yasalgan moddaning optik zichligi.
A) $n_1 > n_2$
B) $n_1 = n_2$
C) $n_1 < n_2$
D) *sochuvchi linzaning optik zichligi musbat bo‘la olmaydi*

31. 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) *14* B) *18* C) *6* D) *12*

32. Bikrligi 250 N/m bo‘lgan prujinaga bog‘lab qo‘yilganda 16 s ichida 20 marta tebradigan yukning massasini (kg) toping. π^2=10
A) *1,6* B) *4* C) *16* D) *0,4*

33. 40 l 10°C li suvga 20 l 40°C li suv aralashtirildi. Aralashmaning haroratini (°C) toping.
A) *22* B) *24* C) *20* D) *28*

34. 25 kg toshko‘mir batamom yonganda qancha issiqlik (J) ajralib chiqadi? q=2,7·10^7 J/kg
A) *6,5·10*^{8} B) *6·10*^{8} C) *5·10*^{8} D) *6,75·10*^{8}

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

36. Maydonining energiyasi 2 J bo‘lishi uchun induktivligi 1 H bo‘lgan drossel chulg‘amidagi tok kuchi (A) qancha bo‘lishi kerak?
A) *2* B) *4* C) *3* D) *1,5*

INGLIZ TILI

1. Choose the answer which correctly complete the sentence.
They were tired because they ... hard all morning.
A) *had been studying* B) *studied*
C) *had studied* D) *were studying*

2. Choose the answer which correctly completes the sentence.
I didn’t see Diana at the party, so she ... have been there.
A) *can’t* B) *shouldn’t* C) *oughtn’t*
D) *mustn’t*

3. Choose the answer which correctly complete the sentence.
Jack left his family at ... early age to get a job in town.
A) *an* B) - C) *a* D) *the*

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

5. Choose the answer which correctly completes the sentence.
The receptionist put me ... to the manager’s secretary.
A) *off* B) *through* C) *forward* D) *with*

6. Choose the answer which correctly complete the sentence.
This car is the ... model and much better than the previous one.
A) *latest* B) *last* C) *later* D) *latter*

7. Choose the answer which correctly completes the sentence.
Even though a great deal of the lawn is open to the sun, there are ... of shade trees to make it comfortable.
A) *none* B) *some* C) *plenty* D) *no*

8. Choose the answer which correctly complete the sentence.
These library books are overdue so I ... pay a fine when I return them.
A) *need* B) *can* C) *have to* D) *may*

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

10. Choose the answer which correctly completes the sentence.
Once he was skiing too fast down a mountain, when he crashed into ... tree.
A) *a* B) *the* C) - D) *an*

11. Choose the answer which correctly completes the sentence.
There was a conference in the Institute.
A number of teachers ... there.
A) *is sent* B) *are sent* C) *were sent*
D) *be sent*

12. Choose the answer which correctly completes the sentence.
"What time shall we arrive in Prague?" she asked.
She asked what time ... arrive in Prague.
A) *shall we* B) *would they* C) *they would*
D) *we shall*

13. Choose the answer which correctly complete the sentence.
- Hello. Can I speak to Mr. James, please?
- I/m sorry. He isn't ... at the moment. Can I take a message?
A) *inside* B) *away* C) *in* D) *out*

14. Choose the answer which correctly completes the sentence.
Gustav Eiffel designed the Eiffel Tower ... he was a bridge builder.
A) *then* B) *where* C) *what* D) *while*

15. Choose the answer which correctly completes the sentence.
I'm starting a new job next week. I'm quite ... about it.
A) *excitedly* B) *excited* C) *excity*
D) *exciting*

16. Choose the answer which correctly completes the sentence.
I daren't ... my boss for a rise just now.
A) *to ask* B) *be asking* C) *asking* D) *ask*

17. Choose the answer which correctly completes the sentence.
I wish I ... everything to you yesterday.
A) *could have explained* B) *could explain*
C) *have explained* D) *explained*

18. Choose the answer which correctly completes the sentence.
It was strange at first, but I ... playing the bagpipes now.
A) *use to* B) *used to* C) *would*
D) *am used to*

19. Choose the answer which correctly completes the sentence.
Your friend can borrow my ... camera for the weekend.
A) *fathers-in-law* B) *father-in-law's*
C) *father-in-law* D) *father's-in-law*

20. Choose the answer which correctly completes the sentence.
The cause of car accident ... at present.
A) *are being investigated* B) *is investigated*
C) *is being investigated*
D) *have been investigated*

21. Choose the answer which correctly completes the sentence.
Most rocks contain several minerals, but limestone contains only one and... .
A) *so is marble* B) *so marble does*
C) *marble is so* D) *so does marble*

22. Choose the answer which correctly complete the sentence.
While Dan was washing up the dishes the girls ... the kitchen.
A) *was cleaned* B) *were cleaning*
C) *cleaned* D) *were cleaned*

23. Choose the answer which correctly complete the sentence.
Nora, you look awfully tired. What ... all day?
A) *have you done* B) *have you been doing*
C) *are you doing* D) *do you do*

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

One of the smallest of all mammals is the shrew, a mouse like creature with a head and body length of only 3.8 centimetres. All shrews are small, with dense, velvety fur, long tails, and tiny eyes and ears. Shrews have been called bloodthirsty, though the label is not entirely accurate because they must eat almost constantly to stay alive. The animal is believed to have a very high metabolic rate and cannot live more than a few hours without food. In the absence of normal prey, it will turn to cannibalism to survive. The shrew, or some closely related animal, can be found on every continent except Australia. Since this tiny animal has a reputation for having a very bad temper, the adjective "shrewish" is sometimes used to describe a certain type of women.

24. The passage tells us that the shrew ...
A) *has a very short life span.*
B) *is similar to a mouse in appearance*
C) *is in the habit of eating every two hours.*
D) *lives in dense forests.*

25. The passage states that shrews ...
A) *eat each other when they can't find any food.*
B) *eat rarely but in large amounts at a time.*
C) *are the smallest living mammals.*
D) *are found in huge numbers in Australia.*

26. From what is stated in the passage, we can infer that a shrewish woman is someone who ...
A) *is noticeably smaller than the average.*
B) *is very fond of velvet and fur.*
C) *has tiny eyes and ears.*
D) *easily gets annoyed.*

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

28.
A) *no* B) *some* C) *very* D) *much*

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

In 900AD the cities of the Mayan civilization were still prosperous, but a hundred years later they (29).... A number of theories have been put (30)... to explain this. One theory is that the Mayan ruling class died out because rulers did not work and so became (31)..., and there was nobody to tell the formers what to do.

29.
A) *abandoned* B) *have been abandoned*
C) *had abandoned* D) *had been abandoned*

30.
A) *forward* B) *through* C) *down* D) *at*

31.

A) *healthy* B) *health* C) *unhealth*
D) *unhealthy*

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

Lieutenant Zachary Mayo, a 20-year old sailor in the US navy woke up and couldn't get back to sleep because of hot and stuffy air. He got off his bunk quietly so as not to wake up his shipmates. He put his blue overalls on and left the cabin and went onto the deck of a huge aircraft carrier. It was two o'clock on a Friday morning. He breathed in fresh air and looked up at the stars in the sky. And then without thinking he leaned out too far and lost his footing. Before he knew it, he was in the water, watching the huge ship disappearing into the night. Nobody had seen him fall, and for nearly 2 days not one of the crew realized he was missing.

Mayo survived because at training camp two years before he had been taught how to make clothes into life jackets, so he took off his overalls and tied the arms and legs. Then he waved his "life jacket" over his head and filled it with air so that he could stay afloat.

32. Zachary Mayo left his cabin because ...

A) *he wanted to admire the stars in the sky*
B) *somebody woke him up*
C) *he wanted to get some fresh air*
D) *he suffered from insomnia*

33. How did Z. Mayo appear in the water?

A) *to test his overalls if he could stay afloat*
B) *lost his balance when he leaned out*
C) *he wanted to have a swim*
D) *his shipmates pushed him into the water*

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

Of the six outer planets, Mars, commonly called the Red Planet, is the closest to Earth. Mars, 4,200 miles in diameter and 55% of the size of Earth, is 34,600,000 miles from Earth, and 141,000,000 miles from the Sun. It takes this planet, along with its two moons, Phobos and Deamos, 1,88 years to circle the Sun, compared to 365 days for the Earth.

For many years, Mars had been thought of as the planet with the man-made canals, supposedly discovered by an Italian astronomer, Schiaparelli, in 1877. With the United States spacecraft Viking I's landing on Mars in 1976, the man-made canal theory was proven to be only a myth.

Viking I, after landing on the soil of Mars, performed many scientific experiments and took numerous pictures. The pictures showed that the red colour of the planet is due to the reddish, rocky Martian soil. No biological life was found, though it had been speculated by many scientists. The Viking also monitored many weather changes including violent dust storms. Some water vapour, polar ice and permafrost (frost below the surface) were found, indicating that at one time there were significant quantities of water on this distant planet. Evidence collected by the spacecraft shows some present volcanic action, though the volcanoes are believed to be dormant if not extinct.

34. Which of the following is not true?

A) *It takes longer for Mars to circle the Sun than it takes Earth*
B) *Mars has two moons*
C) *Martian soil is rocky*
D) *Mars is larger than Earth*

35. Man-made canals were supposedly discovered by ...

A) *Viking I* B) *Martian* C) *Phobos*
D) *Schiaparelli*

36. Mars has been nicknamed as ...

A) *Deimos* B) *Viking I* C) *The Red Planet*
D) *Martian*