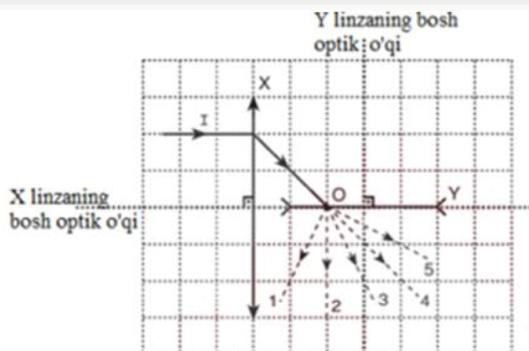


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

1. Fokus masofalari teng bo'lgan qavariq X linza va botiq Y linzalarning bosh optik o'qlari bir-biriga perpendikulyar joylashgan. X linzaning bosh optic o'qiga parallel tushuvchi / yorug'lik nuri bu linzadan rasmida ko'satilganidek singan bo'tsa, bu nur Y linzadan o'tganda qaysi yo'naliш bo'ylab ketadi?



- 4-yo'naliш
- 1-yo'naliш
- 2-yo'naliш
- 3-yo'naliш

Oldingi

Keyingi

Saat  
**01**

Minut  
**29**

Saat  
**01**

Minut  
**28**

Sekund  
**17**

TESTNI  
YAKUNLASH

2. Doimiy magnit qizdirilsa, magnit xossalari qanday o'zgaradi?

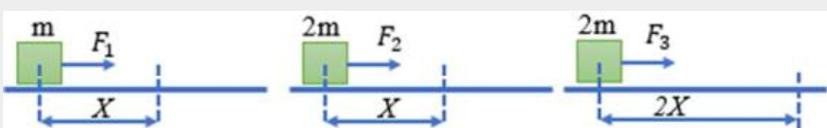
- kamayadi
- o'zgarmaydi
- ortadi
- ortishi ham kamayishi ham mumkin

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

3. Rasmda tinch turgan va massalari  $m$ ,  $2m$ ,  $4m$  bo'lgan jismlar doimiy  $F_1$ ,  $F_2$ ,  $F_3$  kuchlar ta'sirida  $X$ ,  $X$  va  $2X$  masofalarni teng vaqtlar ichida bosib o'tdi. Shu ma'lumotlardan foydalanib, jismlarga ta'sir etgan kuchlarni taqqoslang. Ishqalanishni hisobga olmang.



- $F_2 > F_3 > F_1$
- $F_1 < F_2 < F_3$
- $F_3 > F_1 > F_2$
- $F_1 > F_2 > F_3$

Oldingi

Keyingi

# **Барча фанлардан аттестация саволлари**

## **Ўқитувчилар ва ўқувчилар учун тестлар, мактаб дарслерлари ва қизиқарли мақолалар**

**«Таълим/Образование» сахифалари:**

Telegram - [https://t.me/talim\\_obrazovaniye](https://t.me/talim_obrazovaniye)

Веб сайт - [www.idum.uz](http://www.idum.uz)

Youtube - [https://www.youtube.com/c/talim\\_obrazovaniye](https://www.youtube.com/c/talim_obrazovaniye)

4. Bir jinsli magnit maydonda harakatlanayotgan protonga qachon magnit maydon ta'sir qilmaydi?

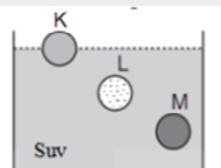
- bir jinsli magnit maydon protonga umuman ta'sir qilmaydi
- magnit maydonga parallel yo'nalishda uchib kirganda
- magnit maydonga perpendikulyar yo'nalishda uchib kirganda
- hamma vaqt ta'sir qiladi

[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

5. Teng hajmli  $K$ ,  $L$ ,  $M$  jismlar suvga tushirilganda rasmdagidek vaziyatni egallab, tinch turib qoldi. Bunga asosan quyidagi fikrlardan qaysilari to'g'ri?



[www.idum.uz](http://www.idum.uz)

I.  $K$  jismni zichligi  $M$  nikidan katta.

II.  $L$  va  $M$  jismlarga ta'sir qilayotgan Arxmed kuchlari teng.

III.  $L$  jismning massasi  $M$  nikidan katta.

IV.  $K$  jismning zichligi eng kichik.

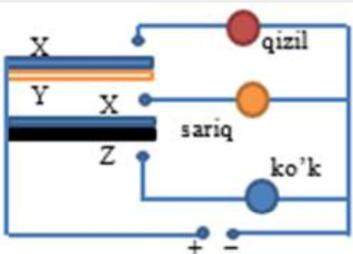
- faqat II
- II va III
- II va IV
- I va IV

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

6. Rasmda keltirilgan elektr zanjirida foydalanilayotgan  $X$ ,  $Y$ ,  $Z$  metal juftliklarining chiziqli kengayish koeffitsentlari orasida  $\alpha_Y > \alpha_X > \alpha_Z$  munosabat o'rinti. Bunga asosan, quyidagi tasdiqlardan qaysilari to'g'ri bo'lishi mumkin?



I. Sistema turgan muhit isitilsa, qizil va ko'k rangli lampalar yonadi

II. Sistema turgan muhit isitilsa, faqat sariq rangli lampa yonadi

III. Sistema turgan muhit sovitilsa, faqat sariq rangli lampa yonadi

I va III

faqat III

faqat I

faqat II

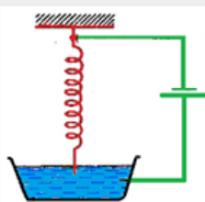
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

7. Prujina vertikal holda mahkamlangan bo'lib, uning pastki uchi idishdagi suyuq o'tkazgichga tegib turadi. Eektr zanjiridagi prujinaning keyingi holatini tasvirlab bering.



Hech qanday hodisa ro'y bermaydi

Prujina qiziydi

Qisqa tutashuv bo'lib, tok mabai ishdan chiqadi

Prujina tebranma harakatlana boshlaydi

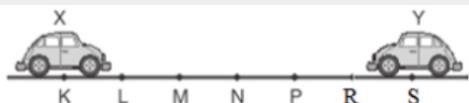
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

8. Rasmda teng bo'lakli yo'lning bir qismi ko'rsatilgan. Harakati K va S nuqtalar orasida o'rganilayotgan X hamda Y mashinalar bir vaqtda tekis harakat qilib, M nuqtada uchrashadi. Bu ma'lumotlardan foydalanib, Y mashina tezligi X mashina tezligidan necha marta katta ekanligini toping.



- 1,5 marta
- 2 marta
- 4 marta
- 3 marta

[www.idum.uz](http://www.idum.uz)

Oldingi Keyingi

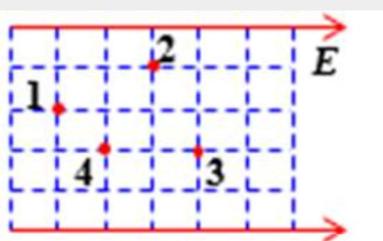
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

9. Temperatura ko'tarilganda suyuqliklarning sirt taranglik koeffitsienti qanday o'zgaradi?

- ortadi
- kamayadi
- o'zgarmaydi
- suyuqlik turiga bog'liq ravishda ortishi ham, kamayishi ham mumkin.

Oldingi Keyingi

10. Rasmda keltirilgan nuqtalar orasida maydon potensiallari farqi ( $\Delta\varphi$ ) uchun qanday munosabat o'rinni?  $E$  - elektr maydon kuchlanganligi. Katakchalar bir xil kvadratlardan tashkil topgan.



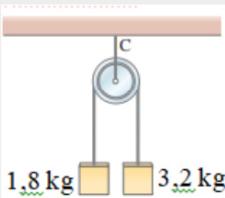
- $\Delta\varphi_{23}=\Delta\varphi_{14}= 2\Delta\varphi_{12}=2\Delta\varphi_{34}$
- $\Delta\varphi_{12}=\Delta\varphi_{43}= 2\Delta\varphi_{23}=2\Delta\varphi_{14}$
- $\Delta\varphi_{12}=\Delta\varphi_{23}=\Delta\varphi_{43}=\Delta\varphi_{14}$
- $\Delta\varphi_{21}=\Delta\varphi_{13}=\Delta\varphi_{34}$

[www.idum.uz](http://www.idum.uz)

Oldingi Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

11. Rasmdagи sistemaning tezlanishini ( $\frac{m}{s^2}$ ) toping. Blok ishqalanishsiz aylanadi.  $g = 10 \frac{m}{s^2}$



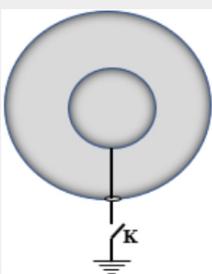
- 2,8
- 1,6
- 2,1
- 1,2

[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

12. Biri ikkinchisining ichiga kiritilgan metall sferalarning radiuslari mos ravishda  $R_1 = 20 \text{ cm}$ ,  $R_2 = 25 \text{ cm}$ , zaryadlari esa  $q_1 = 8 nC$ ,  $q_2 = 15 nC$  ga teng. Agar kalit ulansa, tashqi sferaning zaryadi qanday o'zgaradi? Sim tashqi sferadan izolyatsiya qilingan.



- ortadi
- qiymati o'zgarmasdan ishorasi o'zgaradi
- kamayadi
- o'zgarmaydi

[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

13. Optik zichligi 1,7 ga teng bo'lgan shaffof moddadan tayyorlangan linzaning havodagi fokus masofasi  $F_1$ , suvdagi fokus masofasi  $F_2$  va anilindagi fokus masofasi  $F_3$  ga teng. Bu linzaning uch holatdagi fokus masofalari orasidagi to'g'ri munosabatni ko'rsating. Suv va anilinning optik zichliklari mos ravishda 1,3 hamda 1,59 ga teng.

- $F_2 < F_1 < F_3$
- $F_1 > F_2 > F_3$
- $F_1 < F_2 < F_3$
- $F_1=F_2=F_3$

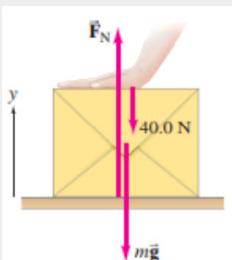
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		

14. Rasmdagি  $F_N$  kuchning qiymati 170 N ga teng bo'lsa, jism massasini toping?



- 20kg
- 17 kg
- 10 kg
- 13 kg

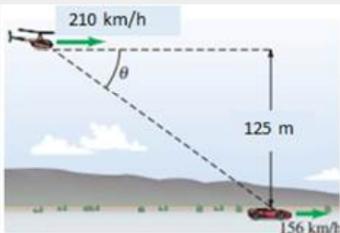
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40							

15. Yerdan 125 m balandlikda gorizontal yo'nalishda 210 km/soat tezlik bilan uchayotgan vertolyot, katta yo'lida 156 km/soat tezlik bilan harakatlanayotgan avtomobilga yukni yetkazishi lozim. Vertolyot yukni mashinadan qanday masofada tashlaganda, yuk to'g'ri mashinaga tushadi? Havoning qarshiligini hisobga olmang.



- 68
- 95
- 105
- 75

[www.idum.uz](http://www.idum.uz)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

16. O'zgaruvchan tok zanjiriga ulangan kondensatordagi zaryadning o'zgarish qonuni  $q = 2 \cdot 10^{-6} \cos 10\pi t$  ko'rinishida bo'lsa, tok kuchining eng katta qiymati qancha (A)?

- $2\pi \cdot 10^{-5}$
- $2 \cdot 10^{-7}$
- $2\pi \cdot 10^{-6}$
- $2\pi \cdot 10^{-7}$

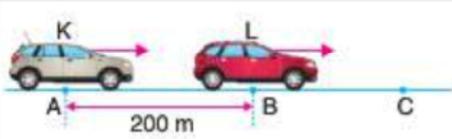
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

17. Rasmdagi mashinalar A va B nuqtalarda tinch turibdi. Bu mashinalar bir vaqtda  $4 \frac{m}{s^2}$  va  $3 \frac{m}{s^2}$  tezlanishlar bilan tekis tezlanuvchan harakatlana boshlab, C nuqtada uchrashishdi. Bunga ko'ra, quyidagi tasdiqlardan qaysilari to'g'ri?

- I. BC masofa 600 m ga teng
- II. K mashina C nuqtaga 20 s da boradi
- III. L mashinaning C nuqtadagi tezligi  $80 \frac{m}{s}$  ga teng bo'lgan



- I va II
- hammasi
- I va III
- II va III

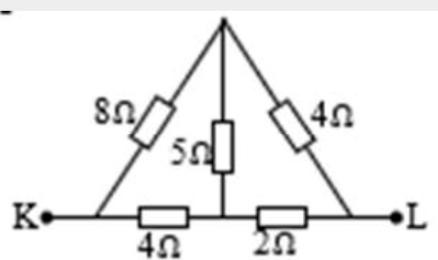
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

18. Keltirilgan elektr zanjiridan foydalanib, K va L nuqtalar orasidagi umumiyl qarshilik necha  $\Omega$  bo'lishini aniqlang.



- 23
- 4
- 18
- 9

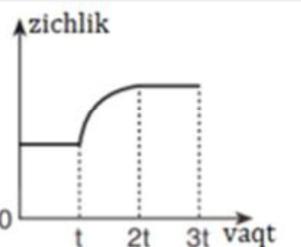
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

19. Bo'sh idish  $0 - t$  vaqt oralig'ida  $K$  jo'mrak bilan,  $t - 2t$  vaqt oralig'ida  $L$  jo'mrak bilan,  $2t - 3t$  vaqt oralig'ida  $M$  jo'mrak bilan to'ldirilmoqda. Bu vaqt davomida idishda hosil bo'lgan aralashmaning zichlik-vaqt grafigi rasmida ko'rsatilgandek bo'ldi. Bunga asosan  $K$ ,  $L$  va  $M$  jo'mraklardan oqayotgan suyuqliklarning zichliklari orasidagi munosabatni toping. (Jo'mraklar bir xil bo'lib, ulardan suyuqliklar bir xil tezlik bilan oqadi.)



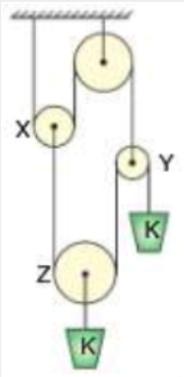
- $\rho_L > \rho_M > \rho_K$
- $\rho_L < \rho_M < \rho_K$
- $\rho_L > \rho_M < \rho_K$
- $\rho_L < \rho_M > \rho_K$

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Oldingi Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

20. Muvozanatda turgan sistemadagi  $X$  blokning massasi 1,6 kg,  $Y$  blokning massasi 0,2 kg ga teng bo'lsa,  $Z$  blokning massasi qanchaga teng bo'ladi?

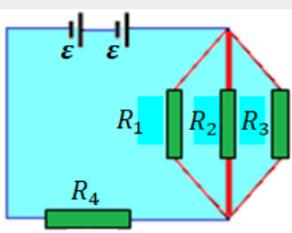


- 0,3 kg
- 0,4 kg
- 0,5 kg
- 0,2 kg

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Oldingi Keyingi

21. Elektr zanjiridagi *EYuk* lar  $\varepsilon=100$  V dan bo'lib, qarshiliklar  $R_1=R_3=40 \Omega$ ,  $R_2=80 \Omega$  va  $R_4=34 \Omega$  ga teng.  $R_2$  qarshilikdan o'tayotgan tok kuchini (*A*) va shu qarshilikdagi kuchlanishni (*V*) aniqlang.



- 0,44; 32
- 4; 40
- 2; 23
- 0,8; 64

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[SINOV TEST]  
Fan: Fizika

(Mutaxassis) - Fizika - 1578617

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40										

22. Rasmdagi jismlar uchun keltirilgan xulosalardan qaysilari to'g'ri?

- I. K jismning zichligi L jismnikidan katta
- II. X jismning massasi Y jismnikidan katta
- III. X jismning zichligi Y jismnikidan katta
- IV. K jismning zichligi L jismnikiga teng

- II va IV
- I va II
- II va III
- faqat II

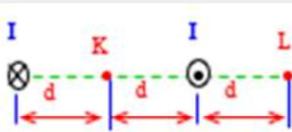
[www.idum.uz](http://www.idum.uz)

Oldingi Keyingi

Fan: Fizika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40										

23. Rasmda parallel toklarning *K* nuqtadagi magnit maydon induksiyasi  $4B$  ga teng bo'lsa, *L* nuqtadagi magnit maydon induksiyasi nimaga teng?



$\frac{4B}{3}$

$\frac{5B}{3}$

B

$\frac{8B}{3}$

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40										

24. Matematik mayatnik ipining uzunligi 2 marta ortsa, uning tebranish davri qanday o'zgaradi?

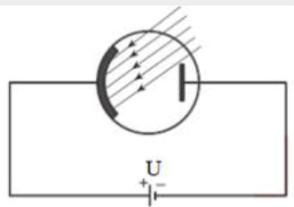
- 2 marta kamayadi
- $\sqrt{2}$  marta kamayadi
- $\sqrt{2}$  marta ortadi
- 2 marta ortadi

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Oldingi

Keyingi

25. Fotoelementli zanjirning katodi chastotasi  $\gamma$ , fotonlar soni  $N$  bo'lgan yorug'lilik dastasi bilan yoritilganida zanjirdan fototok oqmadı (rasmga q). Manbaning kuchlanishi  $U$  ga teng bo'lsa,  $\gamma$ ,  $N$  va  $U$  lardan qaysilari oshirilganda, zanjirdan fototok oqishi mumkin?



- faqat  $\gamma$
- faqat  $U$
- faqat  $N$
- $N$  va  $\gamma$

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40										

26. Qanday nur linzadan o'tganda sinmaydi?

- linzaning optik markaziga tushgan nur
- linzaning fokus nuqtadan o'tib linzaga kelgan nur
- qizil rangli nur
- linzaning fokal tekisligidan o'tib linzaga kelgan nur

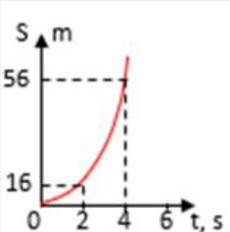
[www.idum.uz](http://www.idum.uz)

Oldingi

Keyingi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
28	29	30	31	32	33	34	35	36	37	38	39	40													

27. Grafikdan foydalanib jismning  $t = 3 \text{ s}$  da bosib o'tgan yo'lini toping.



- 33
- 42
- 24
- 29

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
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28. Sinf xonasining o'lchamlari  $8 \times 12 \times 3 \text{ m}^3$  bo'lib, xonadagi absolyut namlik  $1,25 \frac{\text{g}}{\text{m}^3}$  ga teng bo'lsa, xonadagi suv bug'i massasini aniqlang (g).

- 300
- 360
- 200
- 280

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29. Quyoshning gorizontdan balandligi  $46^\circ$  ni tashkil etadi. Yassi ko'zgudan qaytgan quyosh nurlari yuqoriga vertikal ravishda yo'nalishi uchun uning ko'zguga tushish burchagi qanday bo'lishi kerak?

- $28^\circ$
- $22^\circ$
- $60^\circ$
- $26^\circ$

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30. Harorati  $50^\circ$  bo'lgan 2 l suv harorati  $5^\circ$  bo'lgan ichi bo'sh idishga solindi. Biroz vaqt o'tgandan keyin bu idishdagi suv harorati  $30^\circ$  ga teng bo'lib qolgan bo'lsa, shu idishning issiqlik sig'imi  $4200 \frac{J}{kg \cdot K}$  (Issiqlik tashqariga chiqib ketmagan deb oling). Suvning solishtirma issiqlik sig'imi

- 5680
- 2298
- 6720
- 4200

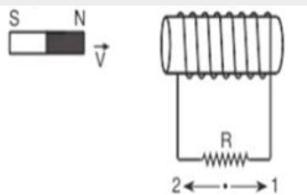
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Keyingi

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31. Rasmdagi doimiy magnit bo'lagi solenoidga o'zgarmas v tezlik bilan yaqinlashmoqda. Bunga asosan, quyidagi tasdiqlardan qaysi biri noto'g'ri?



- R qarshilik orttirilsa, induksion tok kuchi kamayadi
- Solenoidning o'ramlari soni orttirilsa, induksion tok kuchi ortadi
- Rezistoridan 1 yo'nalishda induksion tok oqadi
- R qarshilik orttirilsa, induksion elektr yurituvchi kuchning qiymati kamayadi

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32. 88 gramm karbonat angidrid ( $CO_2$ ) gazida nechta kislorod atomi bor? Karbonat angidridning molyar massasi  $44 \frac{g}{mol}$  ga teng.  $N_A$  - Avogadro doimiysi.

- $0,5N_A$
- $4N_A$
- $6N_A$
- $N_A$

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33. Asosining yuzasi  $500 \text{ cm}^2$  ga teng bo'lgan silindr shaklidagi po'kak suvda suzib yuribdi. Uni yana  $8 \text{ cm}$  chuqurlikka botirish uchun ustiga qancha massali (g) yuk qo'yish kerak? Po'kak zichligi  $0,2 \text{ g/cm}^3$  ga teng.

- 2000
- 1000
- 1500
- 4000

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Oldingi

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34. Yerning qaysi nuqtasida kompasning shimoliy qutbi yerga tik yo'nalgan bo'ladi?

- magnit qutbda
- janubiy kenglikda
- magnit ekvatorda
- shimoliy kenglikda

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35. Berilgan ideal gaz  $T = \text{const}$  qonunga bo'ysunadi. Agar shu gazning hajmi 2 marta kamaysa, uning bosimi qanday o'zgaradi?

- 8 marta ortadi
- 16 marta kamayadi
- 8 marta kamayadi
- 16 marta ortadi

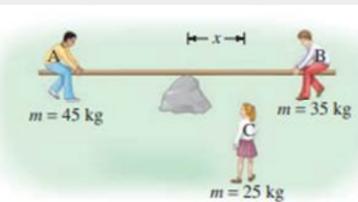
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36. Sistema muvozanatda bo'lishi uchun C qizcha tayanchdan qanday x masofada o'tirishi kerak? A va B bolalar tayanchdan 5 m uzoqlikda o'tiribdi.



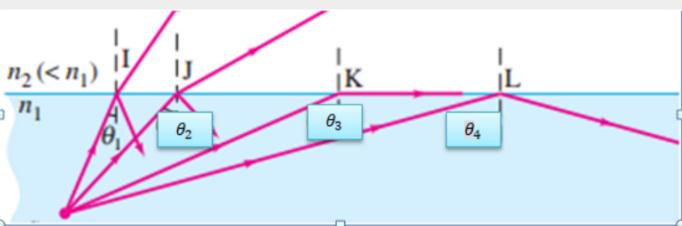
- 0 2
- 0 3
- 0 2,5
- 0 3,6

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37. Rasmdagi qaysi burchak to'la ichki qaytishning chegaraviy burchagi hisoblanadi?

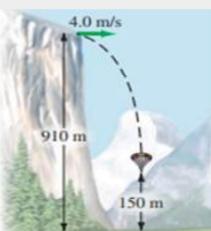


- 0  $\theta_1$
- 0  $\theta_2$
- 0  $\theta_4$
- 0  $\theta_3$

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38. 1 kg massali jism, rasmida ko'rsatilganidek,  $H=910$  m balanlikdan gorizontal  $4 \text{ m/s}$  boshlang'ich tezlik bilan otilgan. Yerdan  $150$  m balandlikda jism qanday kinetik energiyaga ( $kJ$ ) ega bo'ladi?



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- 0 22,5
- 0 15,2
- 0 92,1
- 0 34,9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
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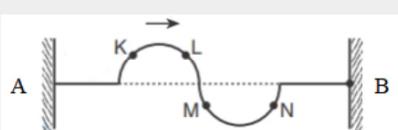
39. Gorizontall otilgan jismning normal tezlanishi qaysi nuqtada eng katta bo'ladi?

- yerga tushgan onda
- otilgan nuqtasida
- otilgan balandlikning o'rtasiga kelganda
- trayektoriyaning barcha nuqtasida bir xil

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40. A va B devorlar orasidagi tarang tortilgan arqonda to'lqin biror onda strelna yo'nalishida harakatlanmoqda. Shu onda K, L, M, N nuqtalardan qaysilari yuqoriga tomon harakatlanmoqda?



- K va L
- M va N
- L va M
- K va M

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# Барча фанлардан аттестация саволлари Ўқитувчилар ва ўқувчилар учун тестлар, мактаб дарслерлари ва қизиқарли мақолалар

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