Javoblar + yechim

PEDAGOGIK MAHORAT VA XALQARO
BAHOLASH ILMIY-AMALIY
MARKAZI

Umumta’lim maktabining 2024-2025 o‘quv yili 8-sinf o‘quvchilarining fizika fanini o‘zlashtirish darajasini aniqlash uchun test, savol, masala va topshiriqlar varianti

8-___ sinf____-guruh o‘quvchisi ________________________________
F.I.SH.

O‘quvchi to‘plagan umumiy ball:_____ (maksimal ball: 50)

IV CHORAK 8-BSB DEMO

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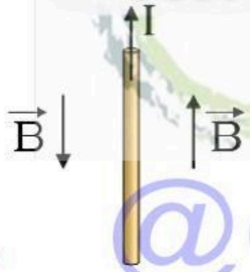
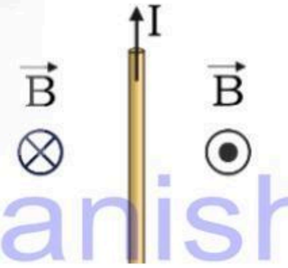
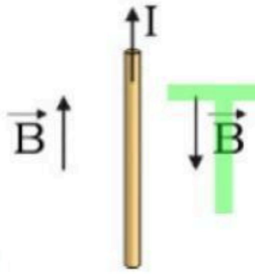
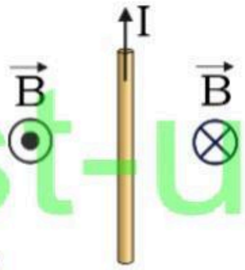
1a. Quyidagi javoblardan qaysi birida tok o‘tayotgan to‘g‘ri o‘tkazgich atrofidagi magnit maydon yo‘nalishi to‘g‘ri tasvirlangan?

[3]

A) 

B) 

C) 

D) 

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1b. Yerning magnit qutblarida magnit mili qanday holatda bo‘ladi?

[3]

A) gorizontal
B) vertikal
C) gorizontal tekislikka nisbatan burchak ostida
D) gorizontal holatda tinimsiz aylanadi

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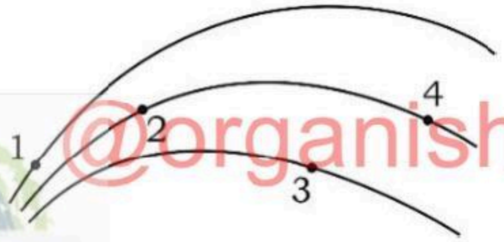
2a. Chizmada fazoning bir qismidagi magnit induksiya chiziqlari tasvirlangan. Qaysi nuqtada magnit induksiyasi vektorining moduli eng kichik bo‘ladi?

[3]



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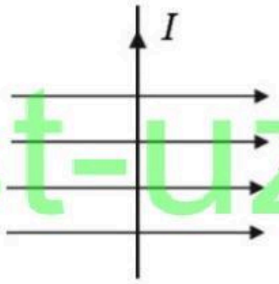
2b. Tokli o‘tkazgich bir jinsli magnit maydonga rasmda ko‘rsatilgandek joylashtirildi. O‘tkazgichga ta’sir etuvchi Amper kuchining yo‘nalishini aniqlang.

[3]



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2c. Rasmda 5 juft tok elementlari (tokning kichik bo‘lakchalari) keltirilgan. Qaysi holda ular o‘zaro tortishadi?

[3]

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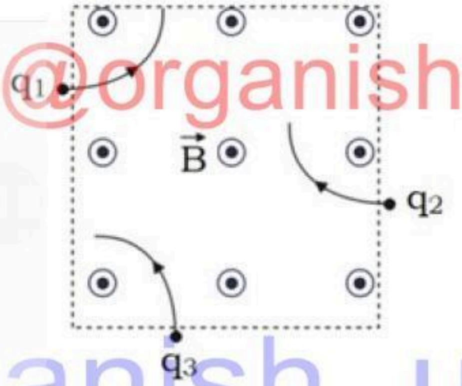
3a. Quyidagi rasmda magnit maydonga uchib kirgan zarralarning trayektoriyasi keltirilgan. Ularning zaryadlarining ishorasini aniqlang.



Musbat yoki *manfiy* so‘zlari orqali javob yozing:

[9]

1) ____________________

2) ____________________

3) ____________________

3b. Quyida bayon qilingan fikrlarning qaysilari to‘g‘ri?

[3]

1) tokli o‘tkazgich atrofida magnit maydon mavjud;

2) magnit maydon chiziqlarining yo‘nalishi uni hosil qiluvchi tok yo‘nalishi bilan aniqlanadi;

3) toklarining yo‘nalishlari bir xil bo‘lgan o‘tkazgichlar itarishishadi;

4) yerning magnit qutblari geografik qutblari bilan ustma-ust tushmaydi;

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4a. Magnit kuch chiziqlariga tik yo‘nalishda 2 km/s tezlik bilan harakatlanayotgan 0,4 C zaryadga ta’sir qilayotgan Lorens kuchi 4 N ga teng bo‘lsa, magnit induksiyasi qanday?

[5]

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4b. Induksiyasi 0,3 T bo‘lgan bir jinsli magnit maydonga uzunligi 0,6 m bo‘lgan 5 A tokli o‘tkazgich kiritildi. Magnit maydon tomonidan shu o‘tkazgichga ta’sir etishi mumkin bo‘lgan eng katta va eng kichik kuchlarni aniqlang.

[8]

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5. Magnit maydon ikkita parallel va teng toklar tomonidan hosil qilingan (rasmga q.). A nuqtada magnit induksiya vektori qanday yo‘nalganligini aniqlang.

[10]

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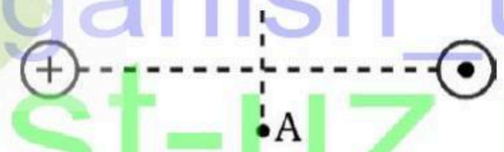

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