

2025 - 2026 EĞİTİM ÖĞRETİM YILI			
.....LİSESİ KİMYA DERSİ 1.DÖNEM 1.		YAZILI SINAVI SORULARI	Sınav Tarihi: .. /../ 2025
ADI :.....	DERS: KİMYA	DEĞERLENDİRME	
SOYADI :.....		SINAV SONUCU	
NUMARASI :.....	12. SINIF	Puan	Yazıyla
SINIFI :.....			
SORULAR (SENARYO-5)			



Yukarıda verilen tepkime için aşağıdaki boşlukları tamamlayınız. (24 Puan)

Yükseltgenen madde:

İndirgenen madde:

İndirgen madde:

Yükseltgen madde:

Yükseltgenme ürünü:

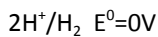
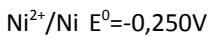
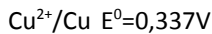
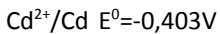
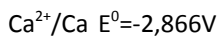
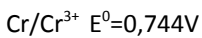
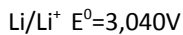
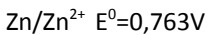
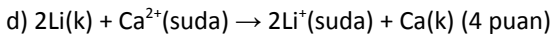
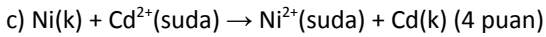
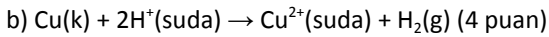
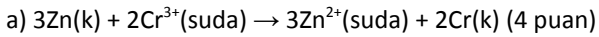
İndirgenme ürünü:

Tepkime en küçük tamsayılarla denkleştirildiğinde H_2O bileşiğinin katsayısı:

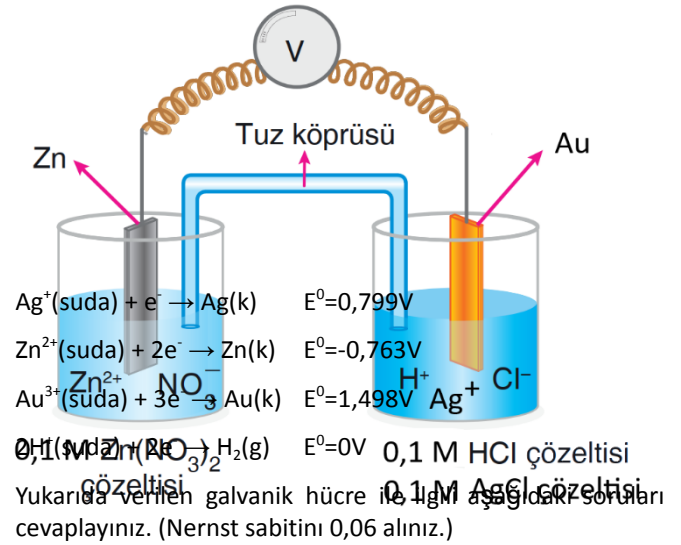
Tepkime en küçük tamsayılarla denkleştirildiğinde yükseltgenme ya da indirgenme ürünü olmayan maddelerin katsayıları toplamı:

2) Galvanik hücreler (pil) kimyasal enerjiyi elektrik enerjisine dönüştürür. Elektrolitik hücreler ise elektrik enerjisini kimyasal enerjiye dönüştürür.

Buna göre aşağıda verilen tepkimeleri galvanik ya da elektrolitik tepkime olarak belirtiniz.



3)



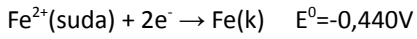
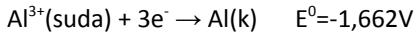
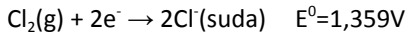
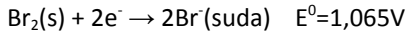
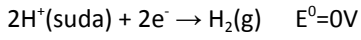
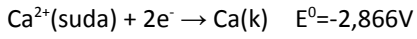
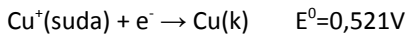
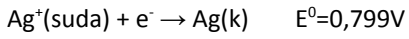
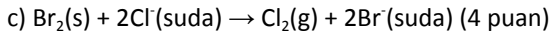
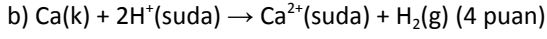
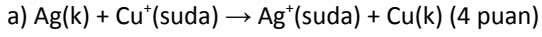
a) Anot ve katot hücrelerini belirtiniz. (4 puan)

b) Tuz köprüsündeki anyon ve katyonları hangi hücrelere gideceğini belirtiniz. (4 puan)

c) Pil tepkimesini yazınız. (8 puan)

d) Pilin başlangıç potansiyelini hesaplayınız. (8 puan)

4) Aşağıda verilen tepkimeleri istemli / istemsiz olarak belirtiniz.



5) Lityum iyon pilleri ile ilgili aşağıdaki soruları cevaplayınız.

a) Bu pilin diğer pillerden farklarını kısaca yazınız. (6 puan)

b) Bu pilin kullanım alanlarından birkaç tanesini yazınız. (6 puan)

c) Pil tepkimesini yazınız. (8 puan)

