
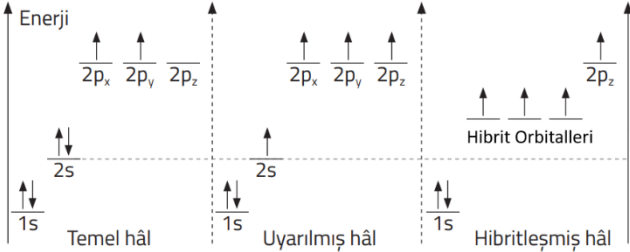
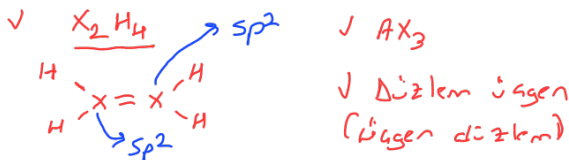


2024 - 2025 EĞİTİM ÖĞRETİM YILI		
.....LİSESİ KİMYA DERSİ 2.DÖNEM 2. YAZILI SINAVI SORULARI		Sınav Tarihi: .. /.. / 2025
	DERS: KİMYA	DEĞERLENDİRME
		SINAV SONUCU
	12. SINIF	Puan Yazıyla
SORULAR (SENARYO-2)		

- 1) Aşağıda X atomuna ait hibrit orbitallerinin oluşumu sırasında gerçekleşen enerji değişim diyagramı verilmiştir. (5 Puan)

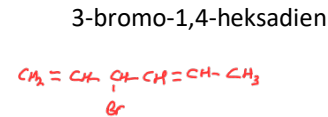
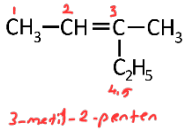
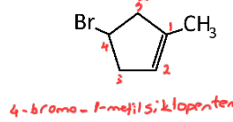
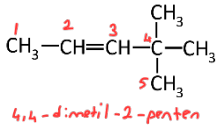


Buna göre X atomunun 1H atomu ile oluşturduğu molekülün hibritleşme türünü, VSEPR gösterimini ve molekül geometrisini belirleyiniz.

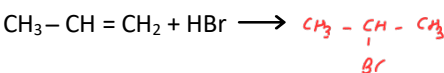
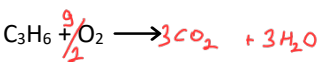
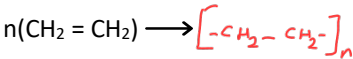
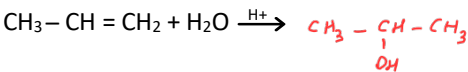


- 2) Aşağıda verilen soruları cevaplayınız.

a) IUPAC adı verilen bileşiklerin yarı-açık formüllerini, yarı-açık formülleri verilen bileşiklerin IUPAC adlarını yazınız. (8 Puan)

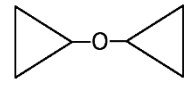
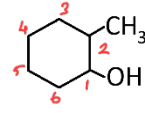
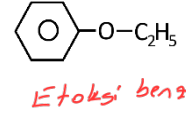
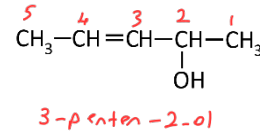


- b) Aşağıda verilen tepkimeleri tamamlayınız. (4 Puan)



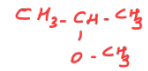
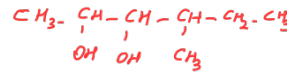
- 3) Aşağıdaki soruları cevaplayınız.

a) Aşağıda formülleri verilen alkol ve eterlerin sistematik adlarını, adları verilen alkol ve eterlerin formüllerini yazınız. (12 Puan)

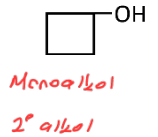
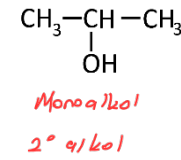
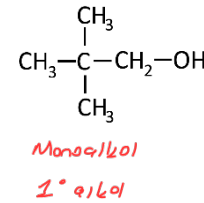
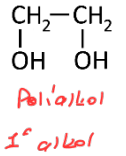
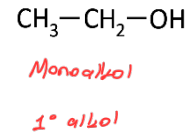
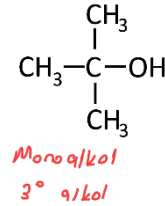


4-metil-2,3-heksandiol

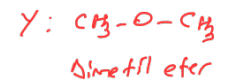
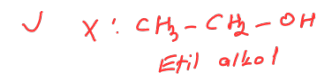
2-metoksipropan



b) Aşağıda verilen alkolleri monoalkol / polialkol ve primer / sekonder / tersiyer alkol olarak sınıflandırınız. (12 Puan)



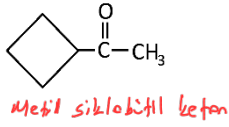
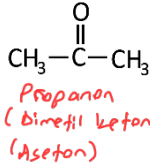
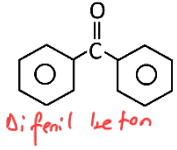
c) Kapalı formülü C_2H_6O olan alkol ve eter oldukları bilinen X ve Y bileşiklerinin aynı ortamdaki kaynama noktalarını nedenleri ile birlikte kıyaslayınız. (5 Puan)



✓ $X > Y$ çünkü alkoller hem kendi moleküllerini arasında hem de suyla hidrojen bağı yaparlar.

4) Aşağıdaki soruları cevaplayınız.

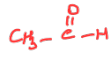
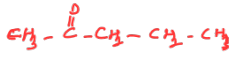
a) Aşağıda formülü verilen bileşiklerin isimlerini, isimleri verilen bileşiklerin formüllerini yazınız. (12 Puan)



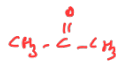
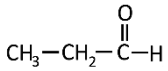
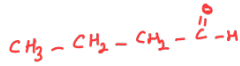
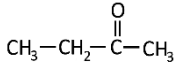
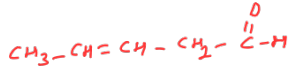
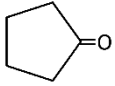
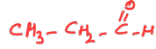
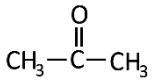
metanal

2-pentanon

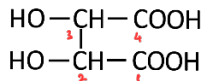
asetaldehit



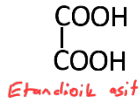
b) Aşağıda verilen bileşiklerin fonksiyonel grup izomerlerinin yapı formüllerini yanına yazınız. (8 Puan)



c) Aşağıda formülü verilen karboksilik asitlerin IUPAC isimlerini, IUPAC isimleri verilen karboksilik asitlerin formüllerini yazınız. (12 Puan)



2,3 - dihidroksi bütandioik asit

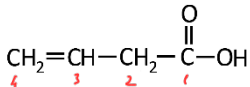
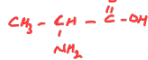


Etanedioik asit

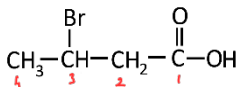
benzoik asit



2-amino propanoik asit



3-bütenoik asit



3-bromobütanoik asit

5) Alternatif enerji kaynaklarına 4 tane örnek veriniz. (5 Puan)

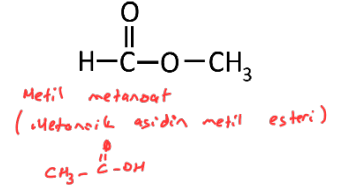
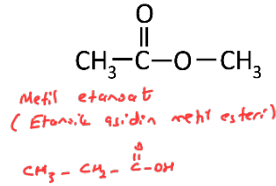
✓ Rüzgar gücü

✓ Dalga enerjisi

✓ Hidroelektrik santral

✓ Güneş enerjisi

6) Aşağıda verilen ester bileşiklerinin isimlerini yazınız ve izomeri olan karboksilik asidi gösteriniz. (5 Puan)



7) Aşağıda verilen tepkimeleri tamamlayınız. (12 Puan)

