

## Questions

### (Alcohols , Phenols & Ethers)

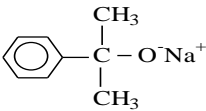
Choose the correct answer for each of the following questions

أختر الإجابة الصحيحة لكل سؤال من الأسئلة التالية :

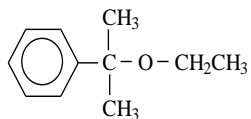
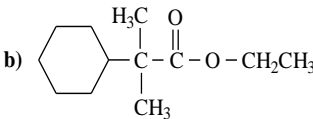
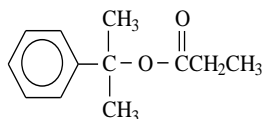
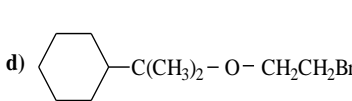
1. The compound which cannot form intermolecular hydrogen bonding is:

المركب الذي لا يكون بين جزيئاته روابط هيدروجينية هو:

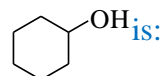
- a)  $\text{CH}_3\text{COOH}$       b)  $\text{CH}_3\text{CH}_2\text{OH}$   
c)  $\text{CH}_3\text{COCH}_3$       d)  $\text{CH}_3\text{CH}_2\text{NH}_2$

2. The following compound  reacts with  $\text{CH}_3 - \text{CH}_2 - \text{Br}$  to give:

يتفاعل المركب أعلاه مع المركب  $\text{CH}_3 - \text{CH}_2 - \text{Br}$  لينتج :

- a)       b) 
- c)       d) 

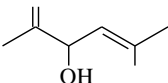
3. The nomenclature of the following compound



يمكن تسمية المركب أعلاه كما يلي :

- a) Phenol  
b) Hexanol  
c) Cyclohexane alcohol  
d) Cyclohexyl alcohol

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**Reference: Organic Chemistry for Health Science**  
**Pof.Salem S. Al-Theyab**

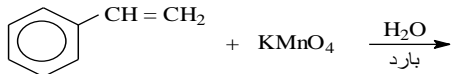
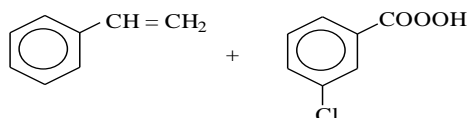
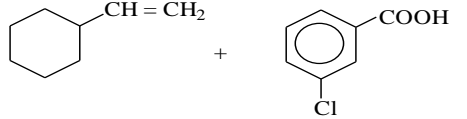
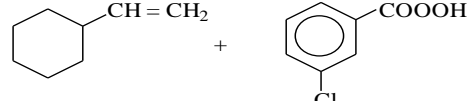
4. The correct IUPAC name of  is:

الاسم المنهجي (IUPAC) للمركب اعلاه هو :

- a) 2,5-Dimethyl -1,4-hexadien -3-ol
- b) 2,5-Dimethyl -1,4-heptadien -4-ol
- c) 2,5-Dimethyl -2,5-hexadie -4-ol
- d) 2,5-Dimethyl -1,4-heptadien -3-ol

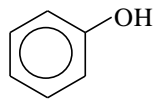
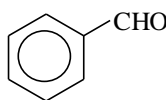
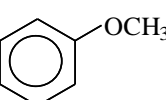
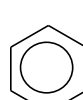
5. Which of the following reactions can form 

أي من التفاعلات التالية يتم تحضير المركب أعلاه :

- a)  +  $\text{KMnO}_4 \xrightarrow[\text{بارد}]{\text{H}_2\text{O}}$
- b) 
- c) 
- d) 

6. Which of the following compounds has higher boiling point?

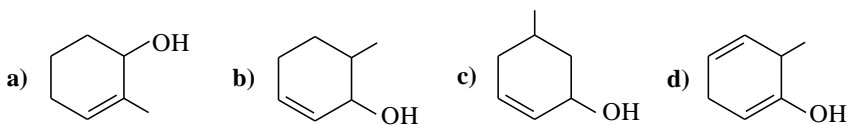
أي من المركبات التالية له درجة غليان أعلى

- a) 
- b) 
- c) 
- d) 

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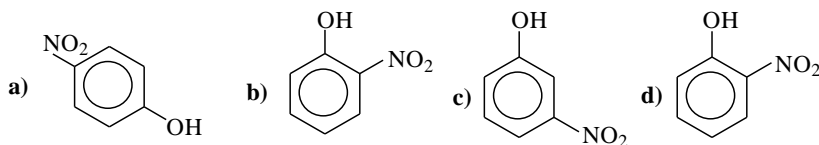
7. The correct structure formula of 6-Methyl-2-cyclohexenol:

صيغة المركب 6-Methyl-2-cyclohexenol الصحيحة هي :

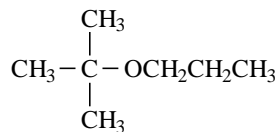


8. The correct structure of m-Nitrophenol is :

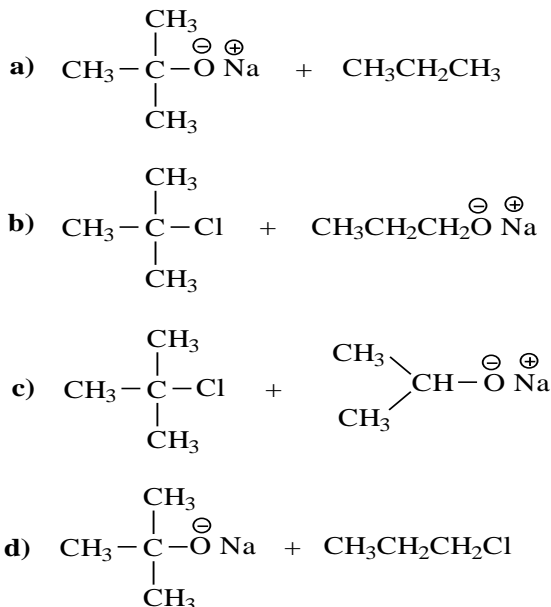
الصيغة البنائية المركب m-Nitrophenol هي :



9. Which of the following reactions can forms



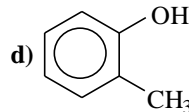
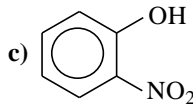
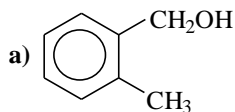
يمكن تحضير المركب أعلاه من تفاعل :



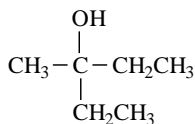
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10. Which of the following compounds is less acidic?

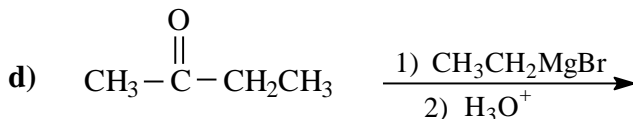
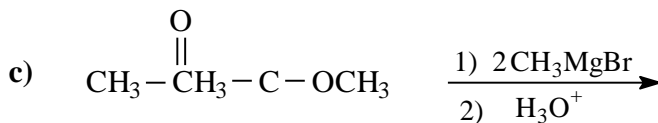
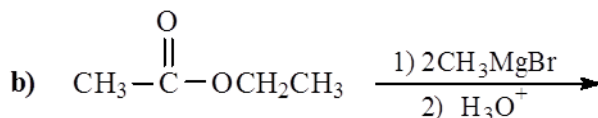
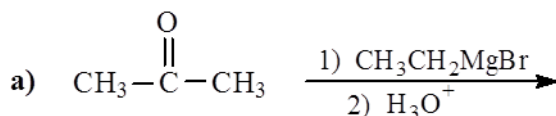
المركب الأقل حمضية هو:



11. Which of the following reactions? can forms



- يمكن تحضير المركب أعلاه من تفاعل



12. Oxidation of Secondary alcohol gives :

أكسدة الأغوال الثانوية تعطي :

a) Ketones

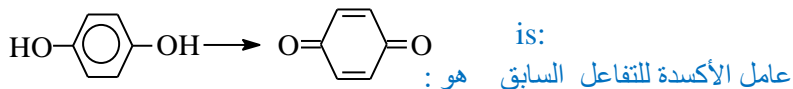
b) Ethers

c) Carboxylic acids

d) Aldehydes

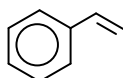
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13. The oxidizing agent for the following reaction

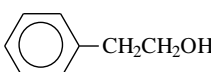
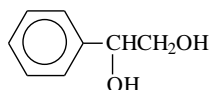
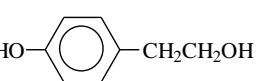
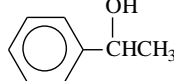


- a)  $\text{LiAlH}_4$       b)  $\text{H}_2\text{O}$       c)  $\text{KMnO}_4$       d)  $\text{NaBH}_4$

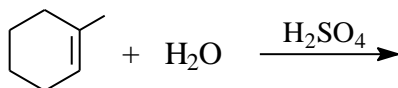
14. The addition of  $\text{H}_2\text{O}/\text{H}_2\text{SO}_4$  to gives one of the following



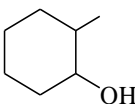
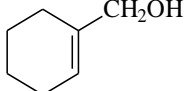
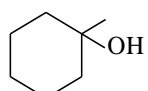
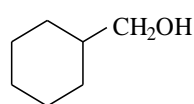
❖ إضافة الماء بوجود حمض الكبريت المخفف للمركب اعلاه تؤدي إلى :

- a)       c)   
b)       d) 

15. Choose the major product for the following equation:



اختر المنتج الرئيسي للتفاعل التالي

- a)       b)       c)       d) 

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16. The IUPAC name for the following structure is:



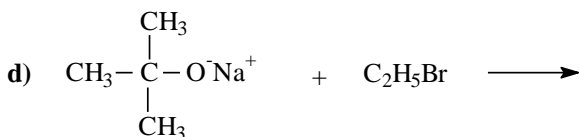
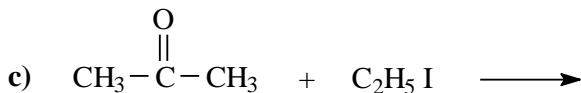
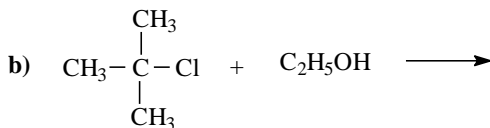
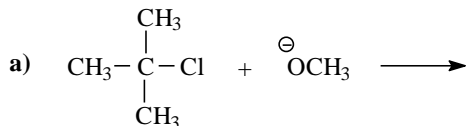
- a) Hexyl alcohol
- b) 3-Ethoxy-1-propanol
- c) 4-Oxohexan-1-ol
- d) Hydroxyethylpropyl ether

17. Cyclohexanol is a: الهكسانول الحلقي هو عبارة عن

- a) Phenol
- b) Primary alcohol
- c) Secondary alcohol
- d) tertiary alcohol

18. Which of the following reactions give t-Butyl ethyl ether?

أي تفاعل من التفاعلات التالية يعطي ثالثي بيوتيل ايثيل الأيثر:



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19. Which of the following compounds is having highest boiling point?

المركب الأعلى درجة غليان من بين المركبات التالية هو :-

- a)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$
- b)  $\text{CH}_3\text{CH}_2 - \text{O} - \text{CH}_2\text{CH}_3$
- c)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$
- d)  $\text{CH}_3\text{COCH}_2\text{CH}_3$

20. Choose the major product for the following equation:

أختر المنتج الرئيسي للتفاعل التالي :

