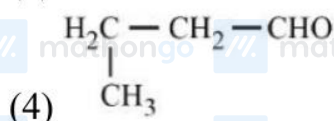
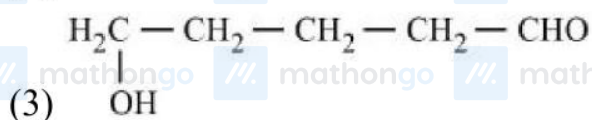
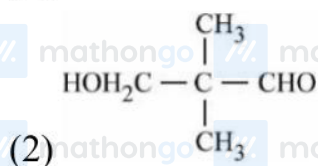
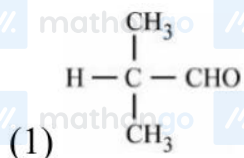
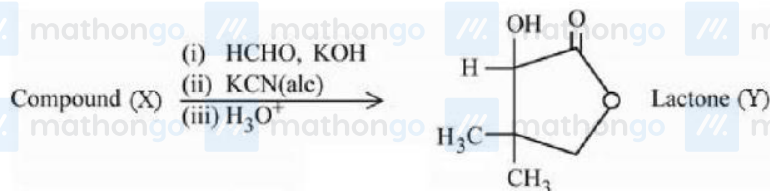


## Q1 - 24 January - Shift 1

Compound (X) undergoes following sequence of reactions to give the Lactone (Y).

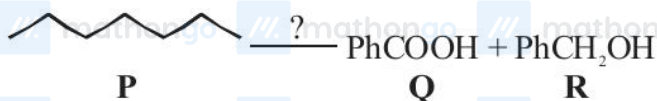
Space for your notes:



## Q2 - 25 January - Shift 1

## Questions with Solutions

MathonGo



Space for your notes:

The correct sequence of reagents for the preparation of Q and R is :

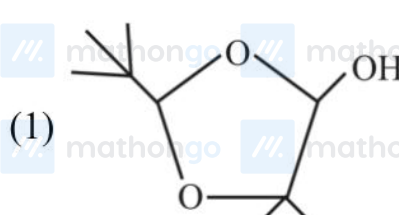
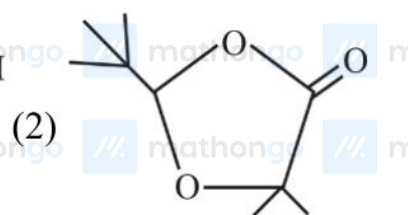
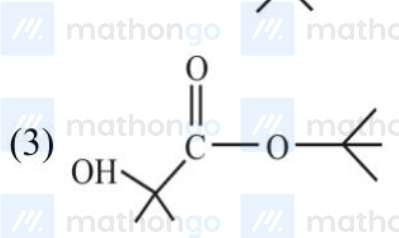
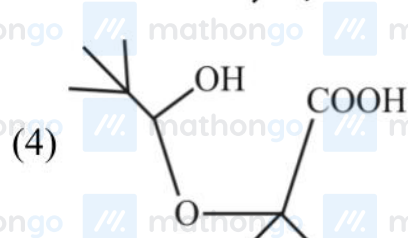
- (1) (i) Cr<sub>2</sub>O<sub>3</sub>, 770 K, 20 atm ;  
(ii) CrO<sub>2</sub>Cl<sub>2</sub>, H<sub>3</sub>O<sup>+</sup> ;  
(iii) NaOH ;  
(iv) H<sub>3</sub>O<sup>+</sup>
- (2) (i) CrO<sub>2</sub>Cl<sub>2</sub>, H<sub>3</sub>O<sup>+</sup> ; (ii) Cr<sub>2</sub>O<sub>3</sub>, 770 K, 20 atm ;  
(iii) NaOH ; (iv) H<sub>3</sub>O<sup>+</sup>
- (3) (i) KMnO<sub>4</sub>, OH<sup>-</sup> ; (ii) Mo<sub>2</sub>O<sub>3</sub>, A ; (iii) NaOH ;  
(iv) H<sub>3</sub>O<sup>+</sup>
- (4) (i) Mo<sub>2</sub>O<sub>3</sub>, Δ ; (ii) CrO<sub>2</sub>Cl<sub>2</sub>, H<sub>3</sub>O<sup>+</sup> ; (iii) NaOH ;  
(iv) H<sub>3</sub>O<sup>+</sup>

Q3 - 25 January - Shift 2

'A' in the given reaction is

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- (1) 
- (2) 
- (3) 
- (4) 

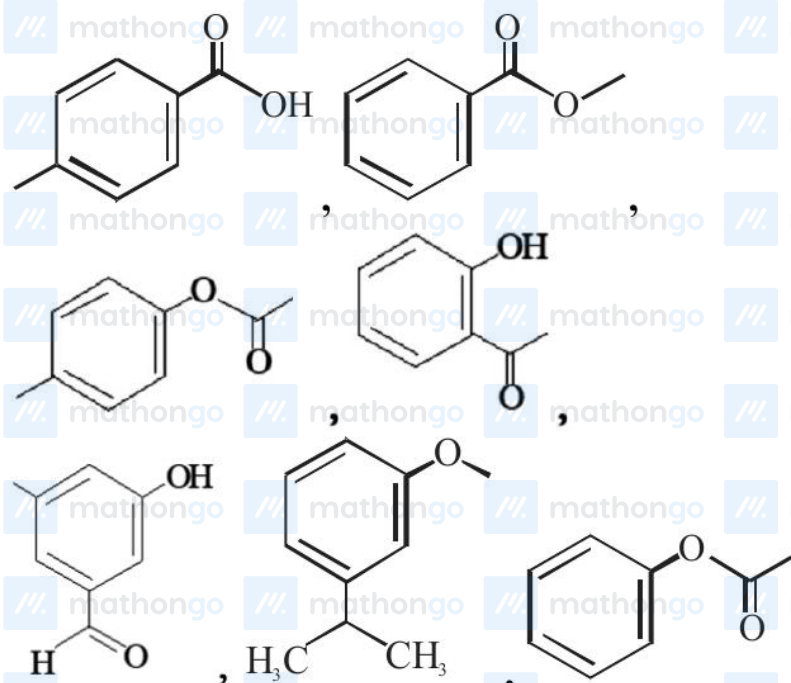
Q4 - 30 January - Shift 2

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## Questions with Solutions

MathonGo

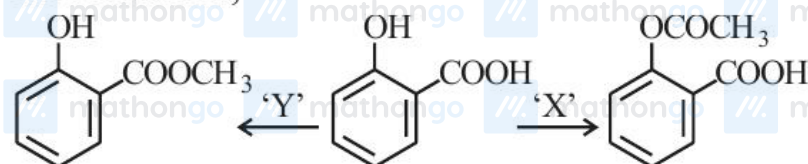
Number of compounds from the following which will not dissolve in cold  $\text{NaHCO}_3$  and  $\text{NaOH}$  solutions but will dissolve in hot  $\text{NaOH}$  solution is \_\_\_\_\_.



Space for your notes:

Q5 - 01 February - Shift 2

In a reaction,



reagents 'X' and 'Y' respectively are :

- (1)  $(\text{CH}_3\text{CO})_2\text{O}/\text{H}^+$  and  $\text{CH}_3\text{OH}/\text{H}^+$ ,  $\Delta$
- (2)  $(\text{CH}_3\text{CO})_2\text{O}/\text{H}^+$  and  $(\text{CH}_3\text{CO})_2\text{O}/\text{H}^+$
- (3)  $\text{CH}_3\text{OH}/\text{H}^+$ ,  $\Delta$  and  $\text{CH}_3\text{OH}/\text{H}^+$ ,  $\Delta$
- (4)  $\text{CH}_3\text{OH}/\text{H}^+$ ,  $\Delta$  and  $(\text{CH}_3\text{CO})_2\text{O}/\text{H}^+$

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Questions with Solutions

MathonGo

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## Answer Key

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(As per Official NTA Key released on 2 Feb)

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**Q1 (1)****Q2 (1)****Q3 (2)****Q4 (3)**

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**Q5 (1)**

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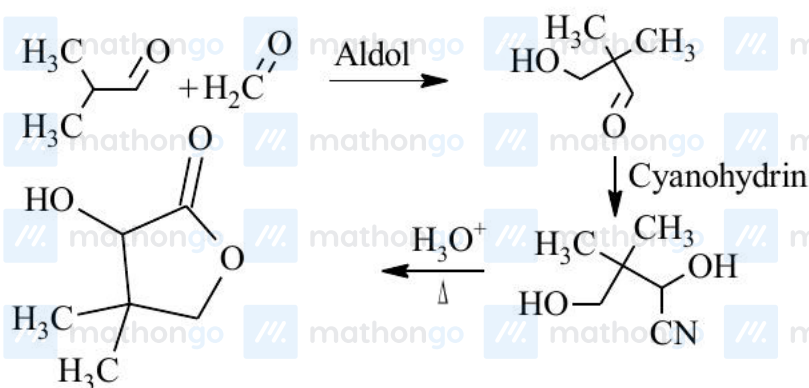
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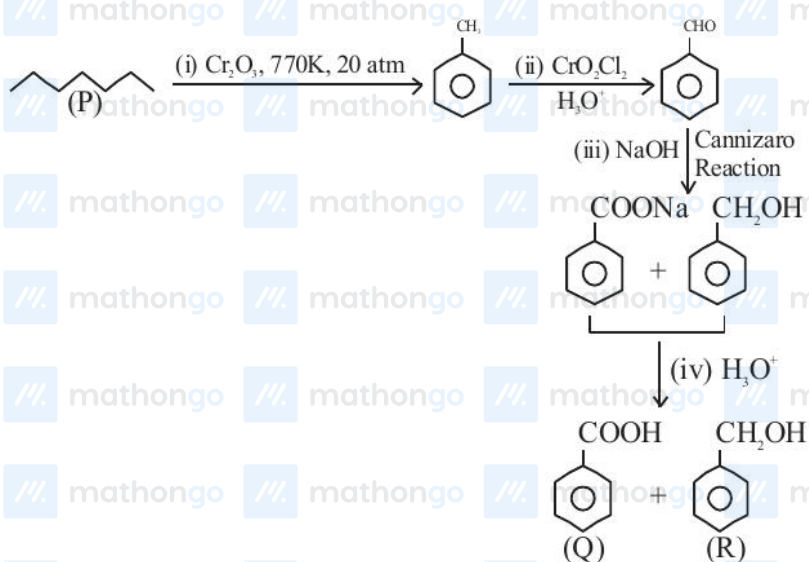
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To practice more chapter-wise JEE Main PYQs, [click here to download the MARKS app](#) from Playstore

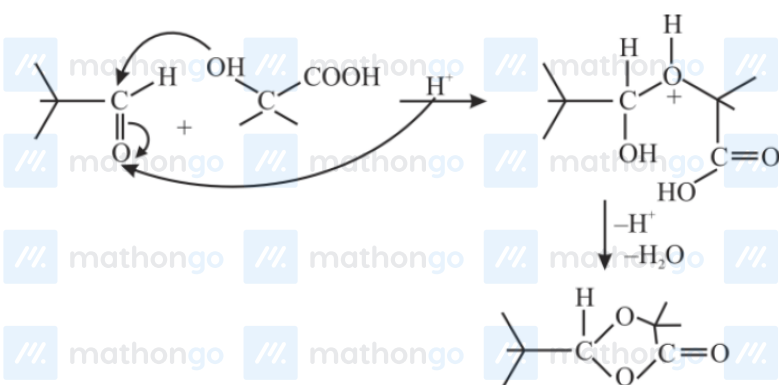
Q1 (1)



Q2 (1)



Q3 (2)

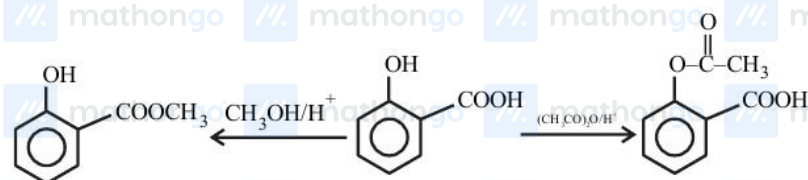


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Q4 (3)

Compound 2, 3, 7

Q5 (1)



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