

## Master Math for JEE Main & JEE Advanced

Crash Courses designed specifically for students who want to improve their percentile & score in upcoming JEE Main & JEE Advanced exam. **Tap on the banners to know more.**

For JEE Main 2020 April



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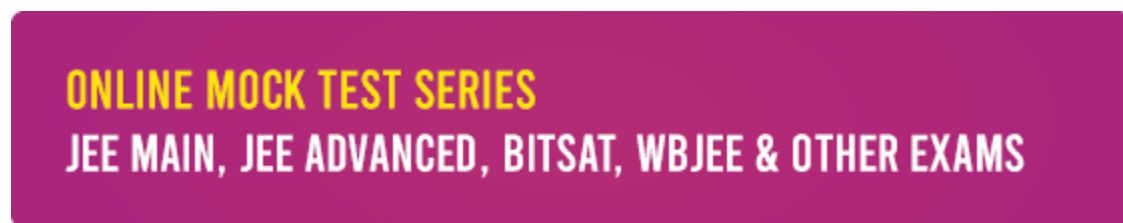
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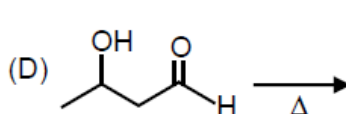
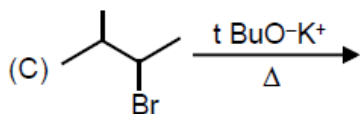
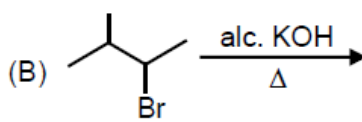
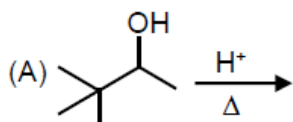
## JEE Mains 2020 Jan Chapter wise Question Bank

## Hydrocarbons

Q1

In which of the following Saytzeff product will not be formed as major product ?

निम्न में से कौनसी अभिक्रिया में मुख्य उत्पाद सैत्ज़ेफ उत्पाद नहीं होगा ?



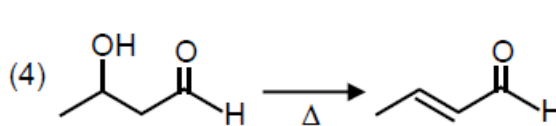
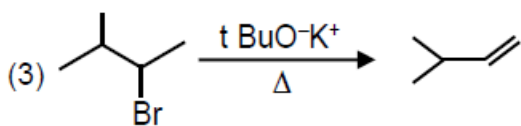
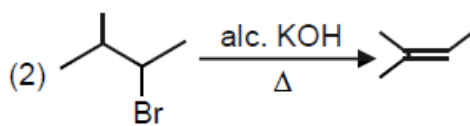
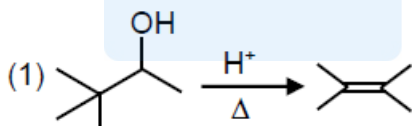
(1) Only केवल C (2) Only केवल B

(3) A, C & D (4) B & D

7<sup>th</sup> Jan Morning

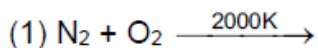
Sol

(1)



Q2

Amongs the following which is redox reaction ?



(2) Formation of  $O_3$  from  $O_2$

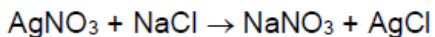
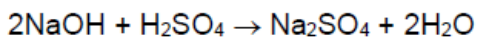
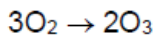
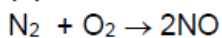
(3) Reaction between  $NaOH$  and  $H_2SO_4$

(4) Reaction between  $AgNO_3$  and  $NaCl$

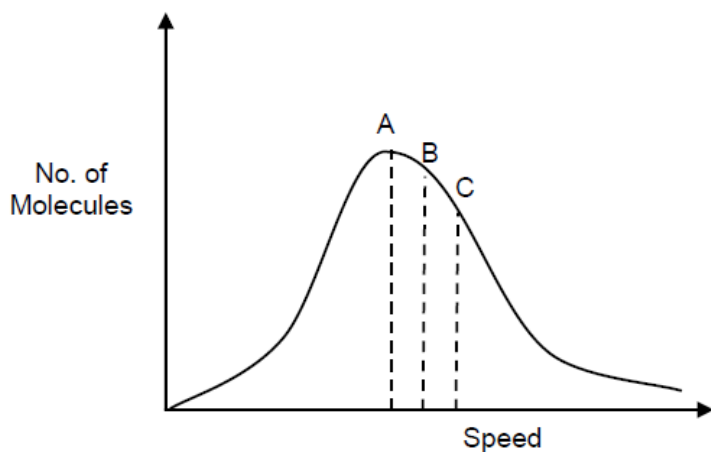
8<sup>th</sup> Jan Morning

Sol

(1)



Q3



Select the correct options :

(1)  $A = C_{\text{MPS}}, B = C_{\text{Average}}, C = C_{\text{RMS}}$

(2)  $A = C_{\text{Average}}, B = C_{\text{MPS}}, C = C_{\text{RMS}}$

(3)  $A = C_{\text{RMS}}, B = C_{\text{Average}}, C = C_{\text{MPS}}$

(4)  $A = C_{\text{MPS}}, B = C_{\text{RMS}}, C = C_{\text{Average}}$

8<sup>th</sup> Jan Morning

Sol

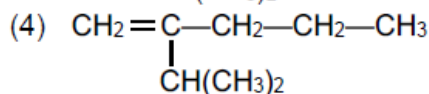
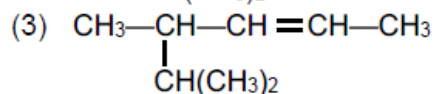
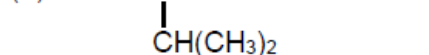
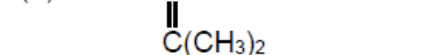
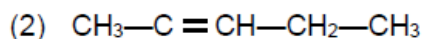
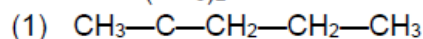
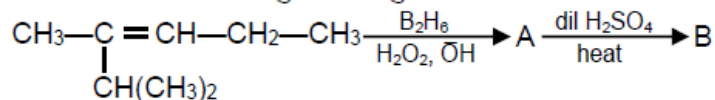
(1)

$$C_{\text{RMS}} > C_{\text{Avg}} > C_{\text{MPS}}$$

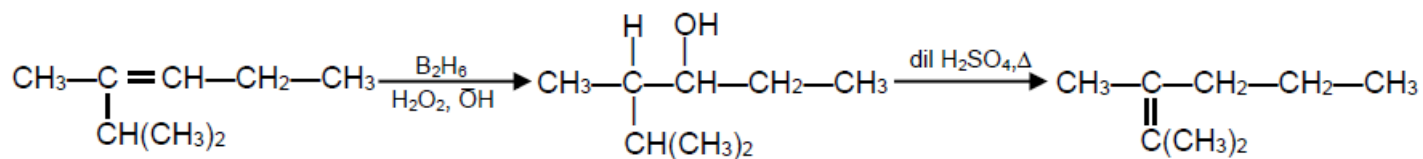
Q4

Find the final major product of the following reactions-

निम्नलिखित अभिक्रिया अनुक्रम का मुख्य उत्पाद है-

8<sup>th</sup> Jan Evening

Sol



Q5

A compound X that adds 2 hydrogen molecules on hydrogenation. The compound X also gives 3-oxohexanedioic acid on oxidative ozonolysis. The compound 'X' is:

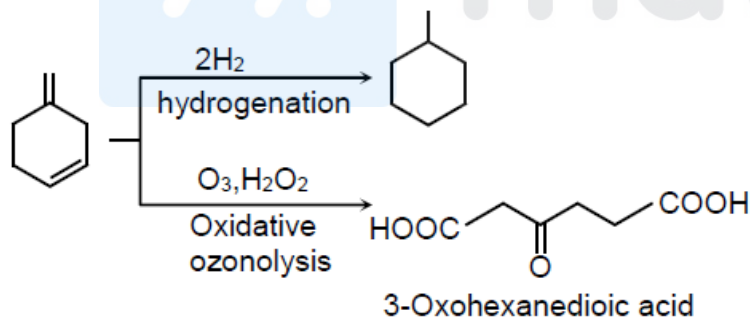
एक यौगिक X जिसके हाइड्रोजनीकरण पर 2 हाइड्रोजन अणुओं का योग होता है यौगिक X ऑक्सीकारी ओजोनी अपघटन पर 3-ऑक्सोहेक्सेन डाईऑईक अम्ल देता है। अतः यौगिक 'X' है—



8<sup>th</sup> Jan Evening

Sol

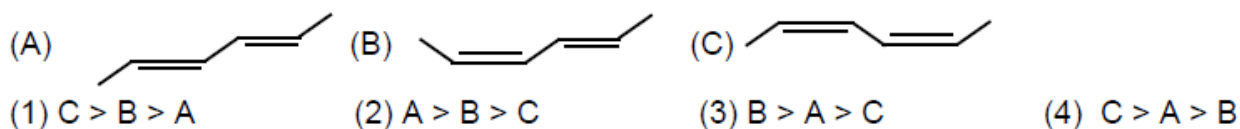
(3)



Q6

Which of the following is correct order for heat of combustion?

निम्नलिखित में से कौनसा क्रम दहन की ऊष्मा के लिये सही होगा—



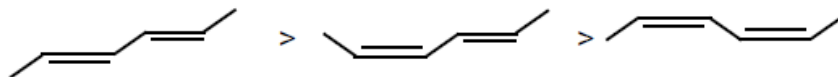
9<sup>th</sup> Jan Morning

Sol

(1)

In isomers of hydrocarbon heat of combustion depends upon their stabilities.  
As the stability increases heat of combustion decreases.

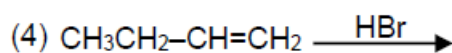
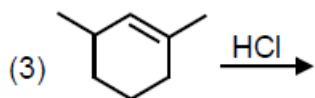
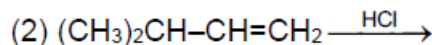
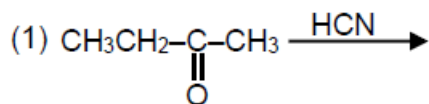
Stability order



Q7

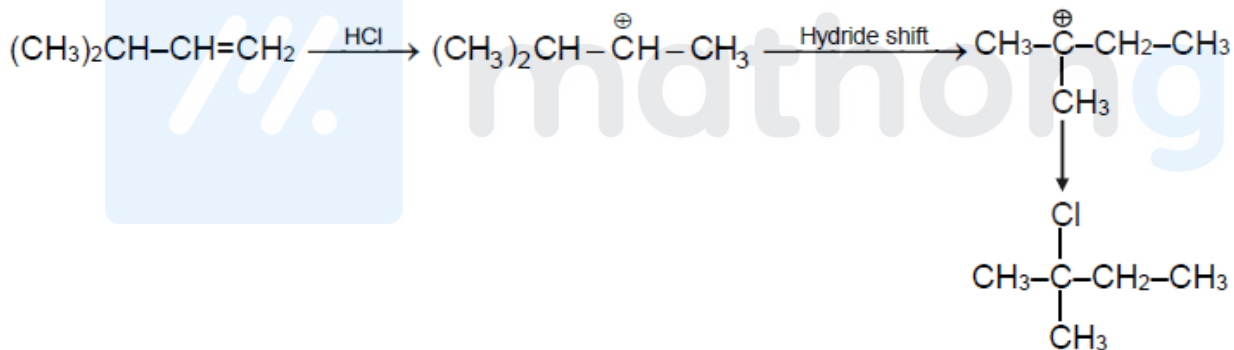
Which of the following reaction will not form racemic mixture as product?

निम्न में से किस अभिक्रिया में रेसेमिक मिश्रण उत्पाद के रूप में प्राप्त नहीं होता है?

9<sup>th</sup> Jan Evening

Sol

(2)



In this reaction, major product is not chiral.

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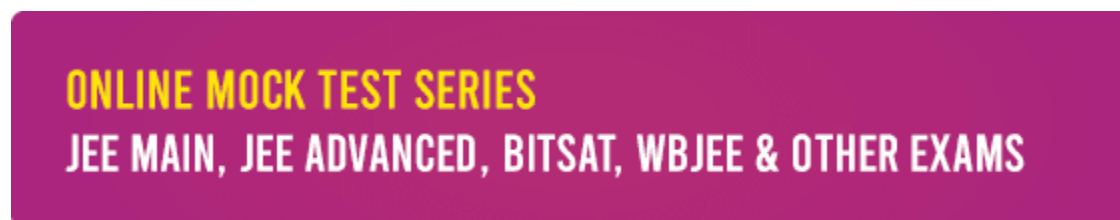
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