

Hydrocarbons

Q.No.1: The trans-alkenes are formed by the reduction of alkynes with :

JEE 2018

- A. Na / liq. NH₃
- B. Sn HCl
- **C.** H₂ Pd / C, BaSO₄
- **D.** NaBH₄

Q.No.2: The combustion of benzene (I) gives $CO_2(g)$ and $H_2O(I)$. Given that heat of combustion of benzene at constant volume is -3263.9 kJ mol $^{-1}$ at 25°C; heat of combustion (in kJ mol $^{-1}$) of benzene at constant pressure will be :

 $(R = 8.314 \text{ JK}^{-1} \text{ mol}^{-1})$

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- **A.** 3260
- **B.** -3267.6
- **C.** 4152.6
- **D.** -452.46

Q.No.3: The major product of the following reaction is:

JEE 2019

C.

D.

Q.No.4: The major product of the following reaction is:

JEE 2019

A.

В.

C.

D.

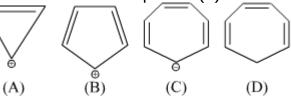
Q.No.5: Which hydrogen in compound (E) is easily replaceable during bromination reaction in presence of light?

$$CH_3 - CH_2 - CH = CH_2$$
(E)

JEE 2019

- A. a hydrogen
- **B.** γ hydrogen
- **C.** δ hydrogen
- **D.** β hydrogen

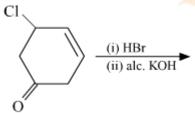
Q.No.6: Which compound (s) out of the following is/are not aromatic?



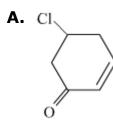
JEE 2019

- **A.** (B), (C) and (D)
- **B.** (C) and (D)
- **C.** (B)
- **D.** (A) and (C)

Q.No.7: The major product of the following reaction is:



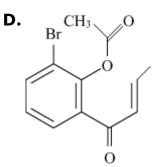
JEE 2019



Q.No.8: The major product obtained in the following conversion is:

JEE 2019

C.



Q.No.9: Which one of the following compounds is non-aromatic?

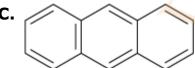
JEE 2021

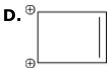
Α.

В.

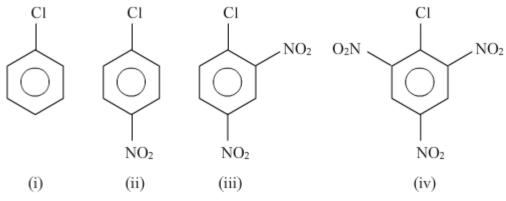


C.





Q.No.10: The correct order of the following compounds showing increasing tendency towards nucleophilic substitution reaction is :



- **A.** (iv) < (i) < (ii) < (iii)
- **B.** (iv) < (i) < (iii) < (ii)
- **C.** (iv) < (iii) < (ii) < (i)
- D.(i) < (ii) < (iii) < (iv)