

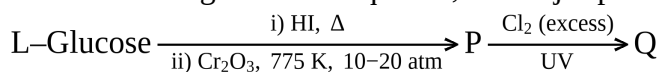
PART 1 - CHEMISTRY

Topic : Hydrocarbons

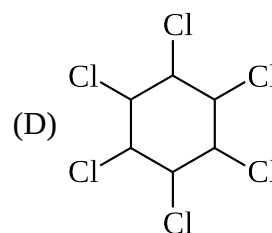
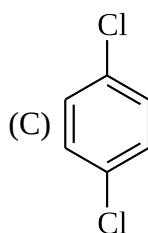
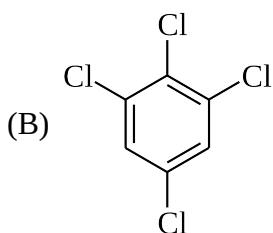
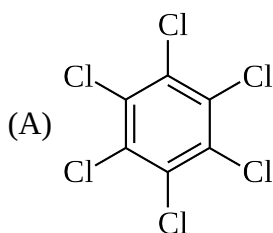
SECTION-1 : (Maximum Marks : 3)

- This section contains **ONE** question.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is the correct answer.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme :
Full Marks : +3 If **ONLY** the correct option is chosen;
Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered);
Negative Marks : -1 In all other cases.

1. In the following reaction sequence, the major product Q is



[JEE Advanced 2024 Paper 2]



Scan or tap for the full solution



Space for Rough Work

SECTION-2 : (Maximum Marks : 4)

- This section contains **ONE** question.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONE OR MORE THAN ONE** of these four option(s) is(are) correct answer(s).
- For each question, choose the option(s) corresponding to (all) the correct answer(s).
- Answer to each question will be evaluated according to the following marking scheme :
Full Marks : +4 ONLY if (all) the correct option(s) is(are) chosen;
Partial Marks : +3 If all the four options are correct but ONLY three options are chosen;
Partial Marks : +2 If three or more options are correct but ONLY two options are chosen, both of which are correct;
Partial Marks : +1 If two or more options are correct but ONLY one option is chosen and it is a correct option;
Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered);
Negative Marks : -2 In all other cases.
- For example, in a question, if **(A), (B) and (D)** are the ONLY three options corresponding to correct answers, then choosing ONLY (A), (B) and (D) will get +4 marks; choosing ONLY (A) and (B) will get +2 marks; choosing ONLY (A) and (D) will get +2 marks; choosing ONLY (B) and (D) will get +2 marks; choosing ONLY (A) will get +1 mark; choosing ONLY (B) will get +1 mark; choosing ONLY (D) will get +1 mark; choosing no option (i.e. the question is unanswered) will get 0 marks; and choosing any other combination of options will get -2 marks.

2. Which of the following are aromatic?

[JEE Advanced 2019]

(A) Benzene

(B) Cyclopentadienyl anion

(C) Cyclooctatetraene

(D) Tropylium cation

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SECTION-3 : (Maximum Marks : 4)

- This section contains **ONE** question.
- The answer to each question is a **NON-NEGATIVE INTEGER**.
- For each question, enter the correct integer corresponding to the answer in the place designated to enter the answer.
- Answer to each question will be evaluated according to the following marking scheme :

Full Marks : +4 If ONLY the correct answer is entered;

Zero Marks : 0 In all other cases.

3. Treatment of buta-1,3-diyne with NaNH_2 (2 equivalents), followed by reaction with excess of trans- $\text{CH}_3 - \text{CH}=\text{CH} - \text{CH}_2 - \text{Br}$ gives X as the major product. The maximum number of carbon atoms that are collinear (in a straight line) in X is ____.

[JEE Advanced 2026 Paper 1]

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Space for Rough Work

JEE ADVANCED HYDROCARBONS — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION-1

[illegible]

SECTION-2

[illegible]

SECTION-3

[illegible]