

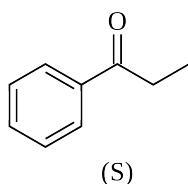
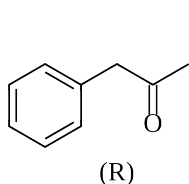
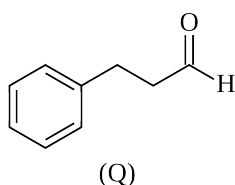
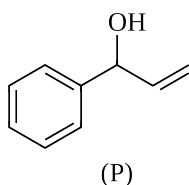
JEE MAIN ALDEHYDES, KETONES AND CARBOXYLIC ACIDS — OXIDATION OF ALDEHYDES AND KETONES — PYQS

Max. Marks: 28

Questions: 7

Section A (MCQ) — 6 questions

Q.1 Given below are the four isomeric compounds (P, Q, R, S)



Identify correct statements from below.

- A. Q, R and S will give precipitate with 2,4-DNP.
- B. P and Q will give positive Baeyer's test.
- C. Q and R will give sooty flame.
- D. R and S will give yellow precipitate with $I_2/NaOH$.
- E. Q alone will deposit silver with Tollens' reagent.

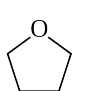
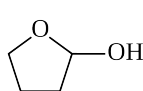
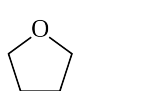
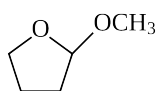
Choose the correct option.

[JEE Main 2026 (Online) 28th January Morning Shift]

- (1) C and E only (2) A and E only
(3) A, B, D and E only (4) A, C and E only

Scan or tap for the full solution 

Q.2 A student is given one compound among the following compounds that gives positive test with Tollens' reagent.



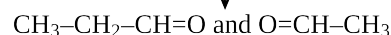
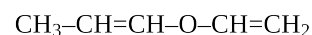
The compound is :

[JEE Main 2026 (Online) 24th January Morning Shift]

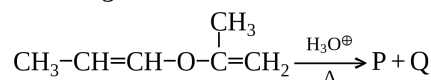
- (1) B (2) D (3) A (4) C

Scan or tap for the full solution 

Q.3 The unsaturated ether on acidic hydrolysis produces carbonyl compounds as shown below :-



Based on this, predict the solution/reagent that will help to distinguish "P" and "Q" obtained in the following reaction :-



[JEE Main 2026 (Online) 24th January Evening Shift]

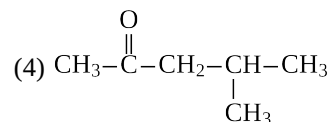
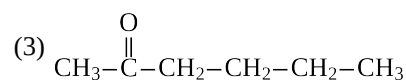
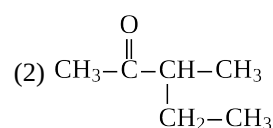
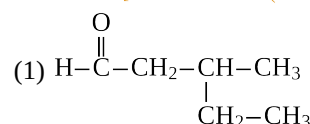
- (1) Saturated $NaHSO_3$ solution
- (2) Fehling solution
- (3) Lucas reagent
- (4) 2,4-DNP reagent

Scan or tap for the full solution



Q.4 "P" is an optically active compound with molecular formula $C_6H_{12}O$. When "P" is treated with 2,4-dinitrophenylhydrazine, it gives a positive test. However, in presence of Tollens' reagent, "P" gives a negative test. Predict the structure of "P".

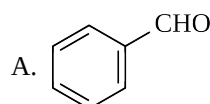
[JEE Main 2025 (Online) 7th April Evening Shift]

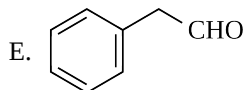
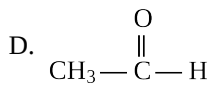
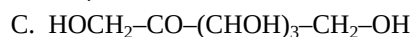
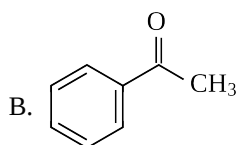


Scan or tap for the full solution



Q.5 The compounds which give positive Fehling's test are :





Choose the correct answer from the options given below :

[JEE Main 2025 (Online) 22nd January Morning Shift]

- (1) A, C and D Only (2) A, B and C Only
(3) A, D and E Only (4) C, D and E Only

Scan or tap for the
full solution



Q.6 Which of the following compounds will give silver mirror with ammoniacal silver nitrate?

- A. Formic acid B. Formaldehyde
C. Benzaldehyde D. Acetone

Choose the correct answer from the options given below : [JEE Main 2024 (Online) 9th April Evening Shift]

- (1) B and C only (2) C and D only
(3) A, B and C only (4) A only

Scan or tap for the
full solution



Section B (Numerical) — 1 question

Q.7 From the compounds given below, number of compounds which give positive Fehling's test is _____.

Benzaldehyde, Acetaldehyde, Acetone,
Acetophenone, Methanal, 4-nitrobenzaldehyde,
cyclohexane carbaldehyde.

[JEE Main 2024 (Online) 29th January Morning Shift]

Scan or tap for the
full solution



ANSWER KEY

Section A (MCQ) — 6 questions

Ques.	1	2	3	4	5	6					
Ans.	4	4	2	2	4	3					

Section B (Numerical) — 1 question

Ques.	7										
Ans.	3										