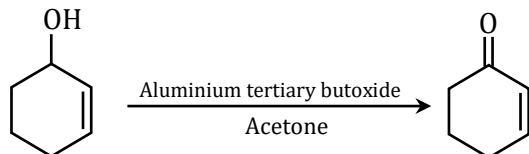


EXERCISE - O

SINGLE CORRECT TYPE QUESTIONS

Oxidation of Alcohol

1. The given reaction

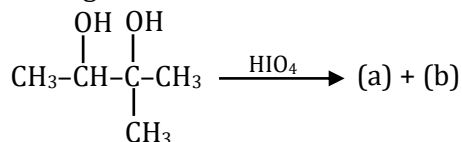


is known as :

- (A) Kolbe reaction (B) Tischenko reaction
(C) MPV reaction (D) Oppenauer oxidation

COX001

2. In the given reaction :



(a) and (b) respectively be :

- (A) CH₃CHO and CH₃CHO (B) CH₃COCH₃ and CH₃CHO
(C) CH₃COCH₃ and CH₃COCH₃ (D) CH₃COOH and CH₃COCH₃

COX002

3. Which one of the following alcohols are oxidised by MnO₂?

- (A) C₆H₅-CH₂-CH₂-OH (B) CH₂=CH-CH₂-CH(OH)-CH₃
(C) CH₃-CH=CH-CH(OH)-CH₃ (D) CH₃-CH₂-CH₂-OH

COX007

4. Which of the following can be oxidised by MnO₂:

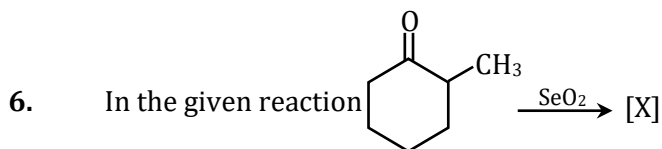
- (A) (B)
(C) (D)

COX009

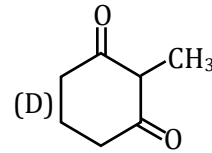
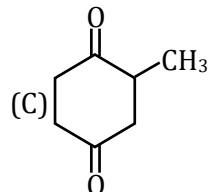
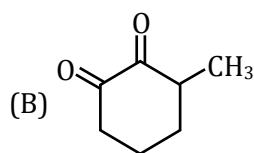
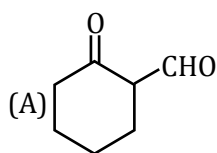
Oxidation of Aldehyde and ketone

5. CH₃-C(=O)-H and CH₃-C(=O)-CH₃ is differentiated by
(A) Tollen's reagent (B) Lucas test (C) Iodoform test (D) NaHSO₃ test

COX003



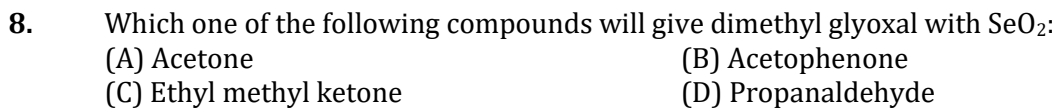
[X] will be :



COX004

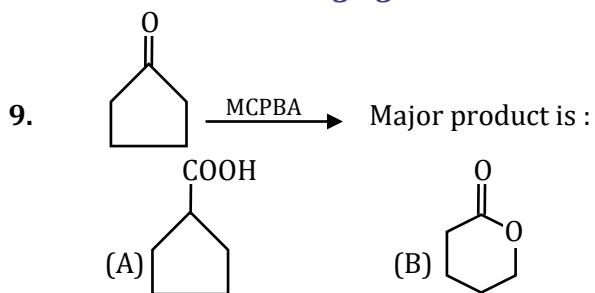


COX005

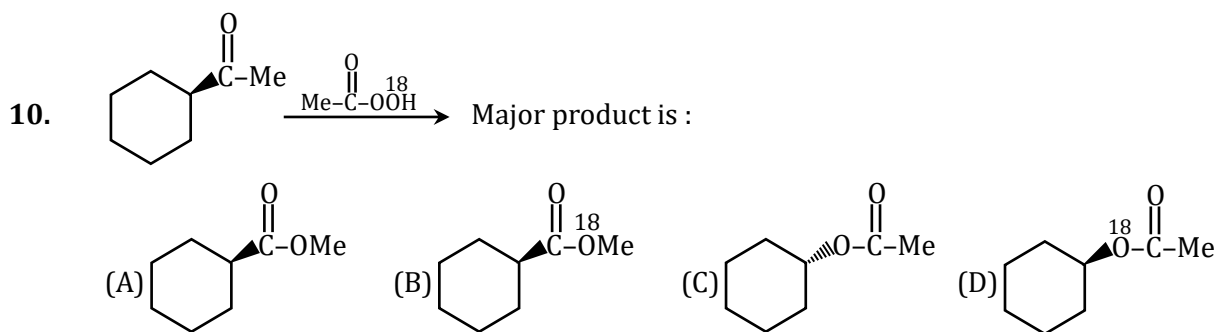


COX006

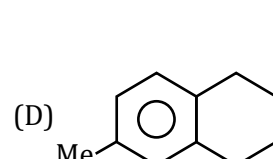
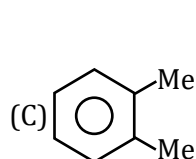
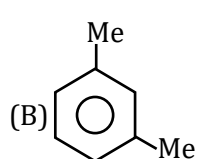
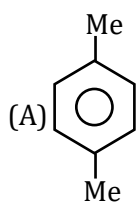
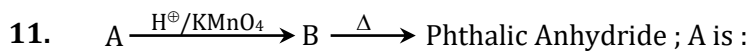
Miscellaneous Oxidising agent



COX008



COX010

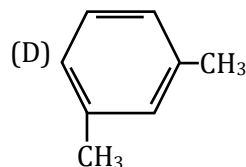
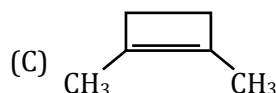
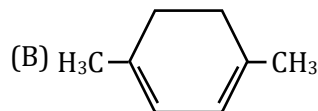
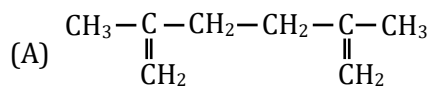


COX011

MULTIPLE CORRECT TYPE QUESTIONS

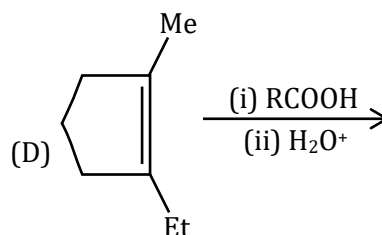
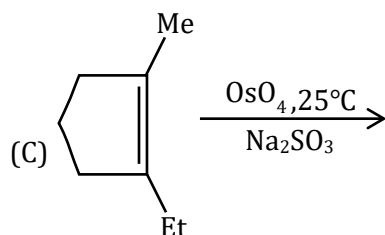
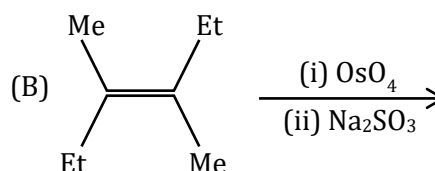
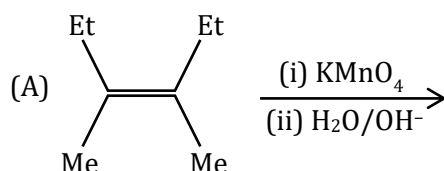
Oxidation of Alkene

12. An organic compound on reaction with O_3 followed by Zn and H_2O gives $CH_3COCH_2CH_2COCH_3$. The structure(s) is/are



COX076

13. Which of the following give syn addition ?



COX077

14. On oxidation, an unknown alkane C_8H_{16} gives a mixture of propanoic acid and pentanoic acid. The unknown alkene can be

(A) cis-3-octene

(B) trans-3-octene

(C) cis-4-octene

(D) trans-4-octene

COX078

Oxidation of Alcohol

15. Propan-1-ol and Propan-2-ol can be best distinguished by
- (A) oxidation with alkaline $KMnO_4$ followed by reaction with H_2O
- (B) oxidation with PCC followed by reaction with Tollen's reagent
- (C) oxidation by heating with copper followed by reaction with iodoform test
- (D) reaction with cone. H_2SO_4 followed by reaction with Fehling solution.

COX079

MATRIX MATCH TYPE QUESTION

Oxidation of Alcohol

16. Match the items given in column I with those in column II.

Column I		Column II		Column III	
a.		p.	$\text{H}_2\text{O}_2 + \text{NaOH}$	i.	Elbs persulphate oxidation
b.		q.	$\text{CH}_3 - \text{C} \equiv \text{N}$, ZnCl_2/HCl	ii.	Baeyer-Villiger oxidation
c.		r.	$\text{K}_2\text{S}_2\text{O}_8 + \text{NaOH}$	iii.	Houben-Roesch synthesis
d.		s.	Per acid	iv.	Dakin reaction

COX080

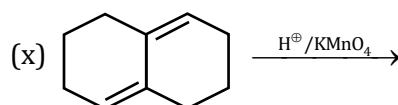
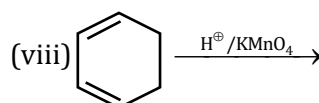
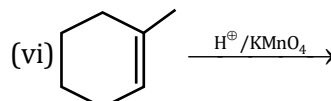
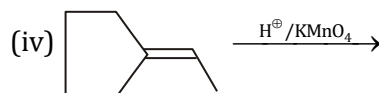
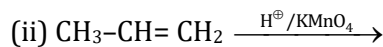
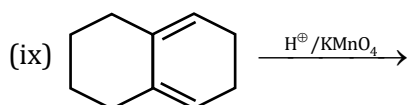
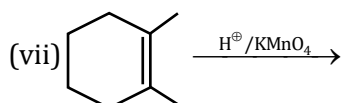
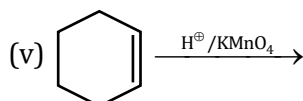
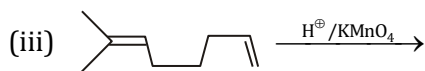
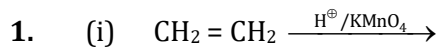
17. Match the items given in column I with those in column II.

Column I		Column II	
a.		p.	MnO_2
b.		q.	FeSO_4 and H_2O_2 (fenton's reagent)
c.		r.	Jones reagent (H_2CrO_4 in aq. acetone)
d.		s.	CrCO_3 in glacial acetic acid
e.		t.	$\text{SeO}_2/\text{MeCOOH}$

COX081

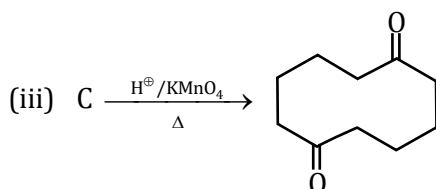
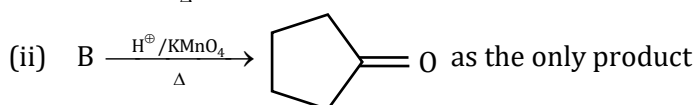
EXERCISE - S

Oxidation of Alkene

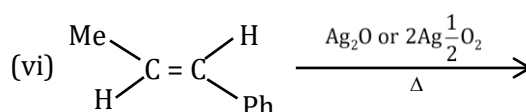
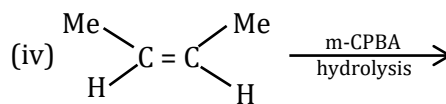
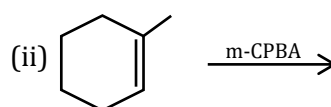
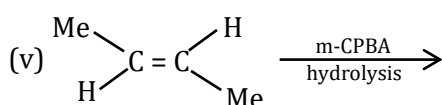
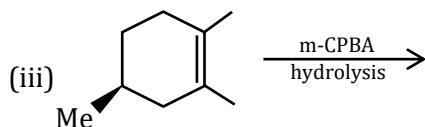
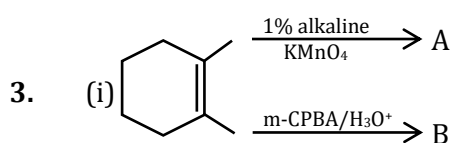


COX082

2. A to D alkenes with minimum possible carbon.

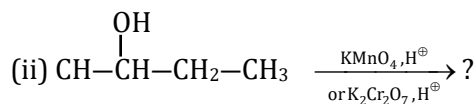
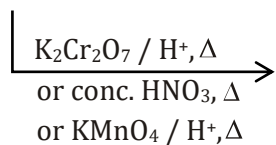
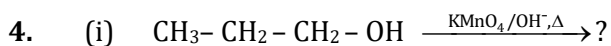


COX083

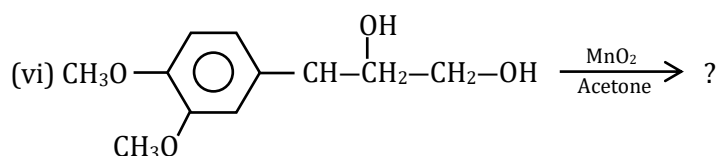
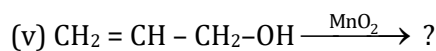
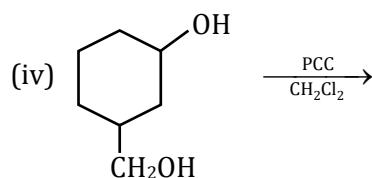
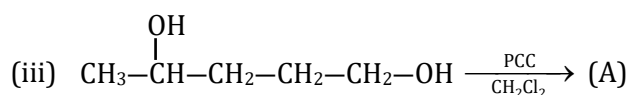
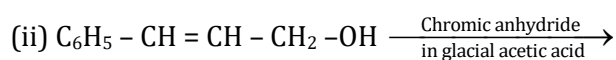
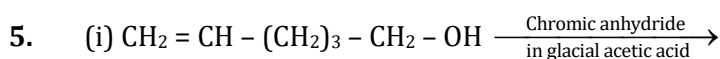


COX084

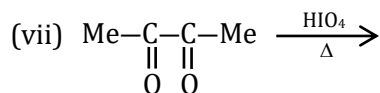
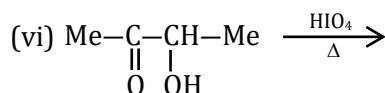
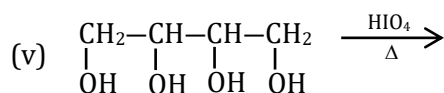
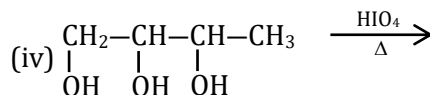
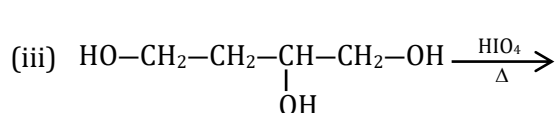
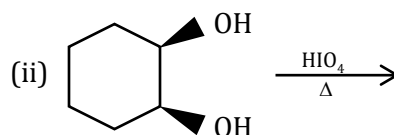
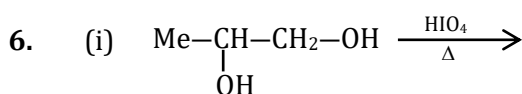
Oxidation of Alcohol



COX085

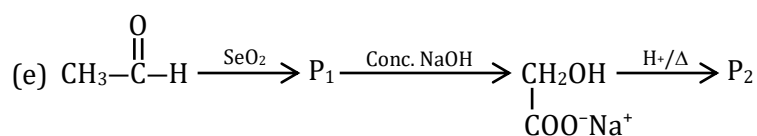
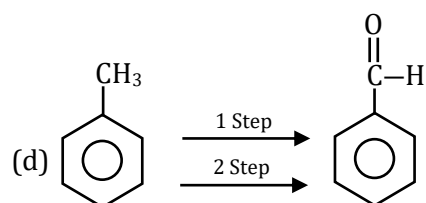
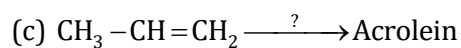
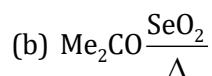
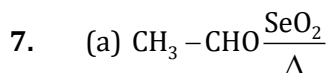


COX086



COX087

Oxidation of Aldehyde and ketone



COX088

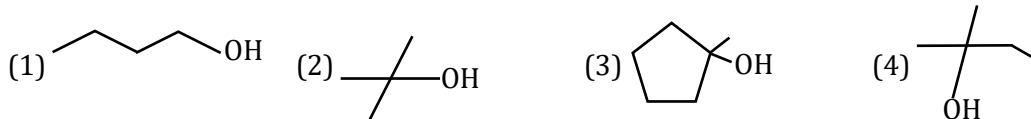
8. (a) How will you differentiate HCHO and PhCHO ?

(b) How will you differentiate HCHO and MeCHO ?

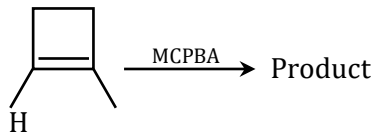
COX089

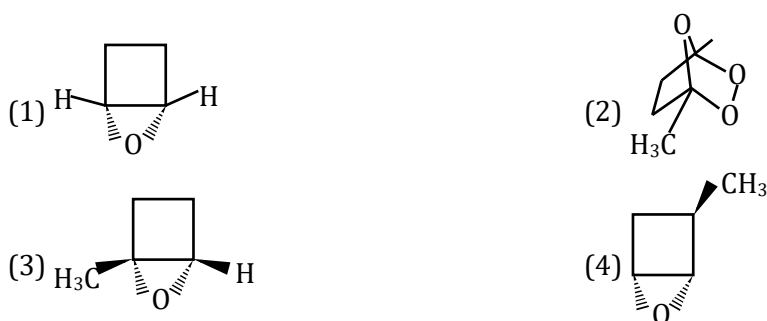
EXERCISE - JEE (Main) PYQ

1. Which of the following will change the colour of acidic dichromate solution. [JEE (Main) 2013]



COX032

2.  Product [JEE (Main) 2013]



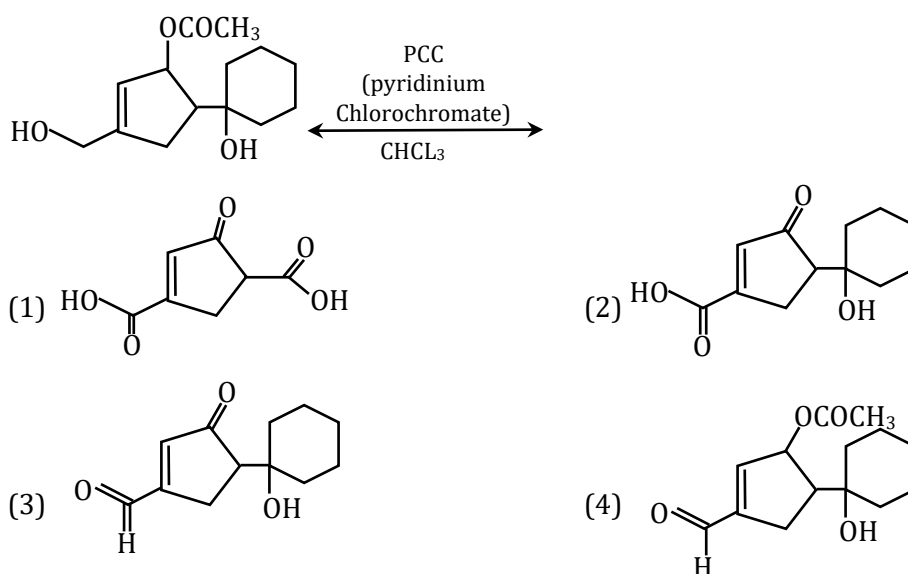
COX033

3. The most suitable reagent for the conversion of $R-CH_2-OH \rightarrow R-CHO$ is :- [JEE (Main) 2014]

- (1) CrO_3 (2) PCC (Pyridinium chlorochromate)
 (3) $KMnO_4$ (4) $K_2Cr_2O_7$

COX034

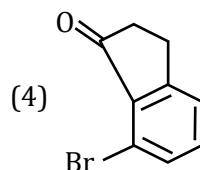
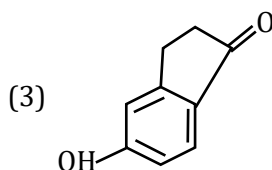
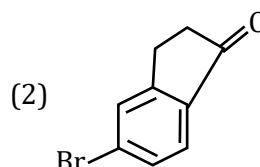
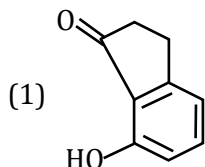
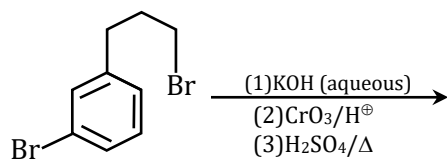
4. The major product formed in the following reaction is :- [JEE (Main) 2018]



COX035

5. The major product of the following reaction is:

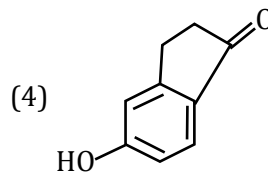
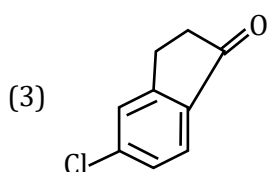
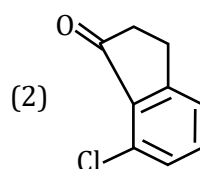
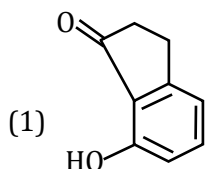
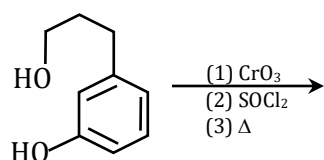
[JEE (Main) 2019]



COX036

6. The major product of the following reaction

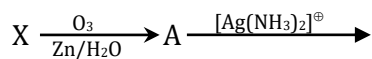
[JEE (Main) 2019]



COX037

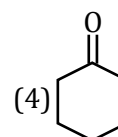
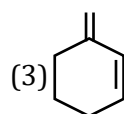
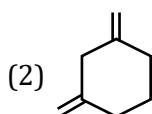
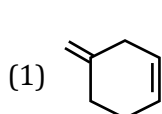
7. An unsaturated hydrocarbon X absorbs two hydrogen molecules on catalytic hydrogenation, and also gives following reaction :

[JEE (Main) 2020]



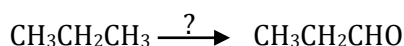
B (3-oxo-hexanedicarboxylic acid)

X will be :-



COX038

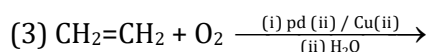
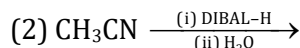
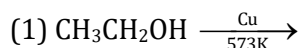
8. Which of the following reagent is used for the following reaction ? [JEE (Main) 2021]



- (1) Manganese acetate (2) Copper at high temperature and pressure
(3) Molybdenum oxide (4) Potassium permanganate

COX039

9. Which one of the following reactions will not form acetaldehyde? [JEE (Main) 2021]



COX040

10. Given below are two statements : [JEE (Main) 2021]

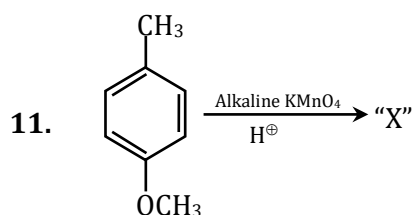
Statement-I : 2-methylbutane on oxidation with KMnO_4 gives 2-methylbutan-2-ol.

Statement-II : n-alkanes can be easily oxidised to corresponding alcohols with KMnO_4 .

Choose the correct option :

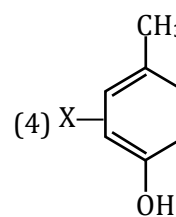
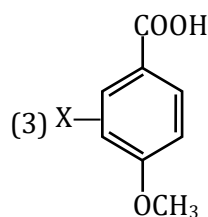
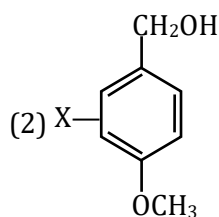
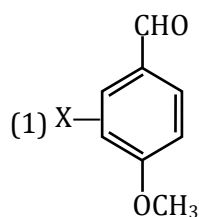
- (1) Both statement I and statement II are correct
(2) Both statement I and statement II are incorrect
(3) Statement I is correct but Statement II is incorrect
(4) Statement I is incorrect but Statement II is correct

COX041



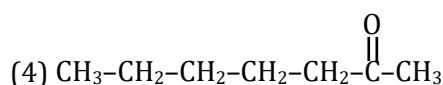
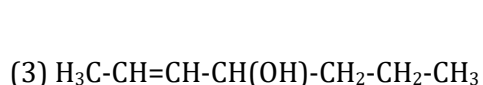
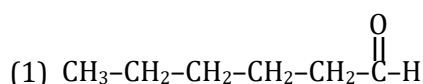
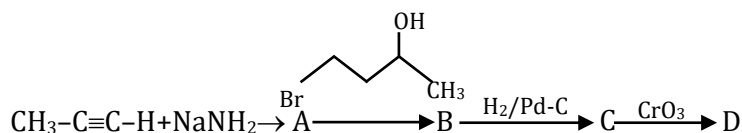
[JEE (Main) 2021]

Considering the above chemical reaction, identify the product "X" :



COX042

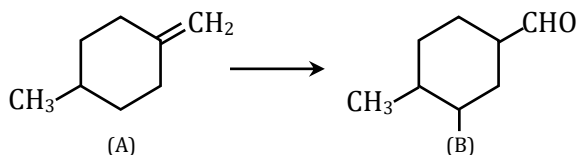
12. In the following sequence of reactions, the final product D is : [JEE (Main) 2021]



COX043

13. Which of the following reagents/ reactions will convert 'A' to 'B'?

[JEE (Main) 2022]

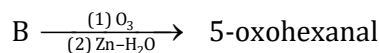


- (1) PCC oxidation
- (2) Ozonolysis
- (3) BH_3 , H_2O_2 / $-\text{OH}$ followed by PCC oxidation
- (4) HBr , hydrolysis followed by oxidation by $\text{K}_2\text{Cr}_2\text{O}_7$

COX044

14. 'A' and 'B' respectively are:

[JEE (Main) 2022]

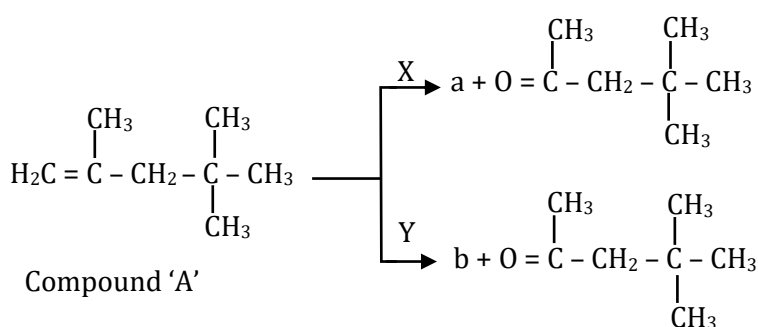


- (1) 1-methylcyclohex-1, 3-diene & cyclopentene
- (2) Cyclohex-1, 3-diene & cyclopentene
- (3) 1-methylcyclohex-1,4-diene & 1-methylcyclopent-1-ene
- (4) Cyclohex-1,3-diene & 1-methylcyclopent-1-ene

COX045

15. A compound 'A' on reaction with 'X' and 'Y' produces the same major product but different by product 'a' and 'b'. Oxidation of 'a' gives a substance produced by ants.

[JEE (Main) 2022]



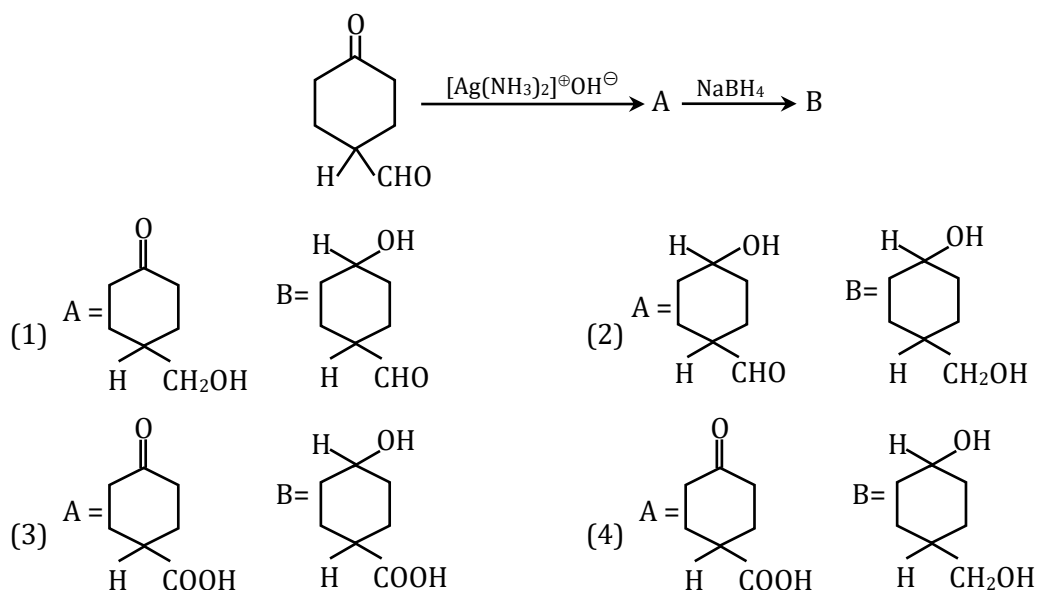
'X' and 'Y' respectively are :

- (1) KMnO_4/H^+ and dil. KMnO_4 , 273 K
- (2) KMnO_4 (dilute), 273 K and KMnO_4/H^+
- (3) KMnO_4/H^+ and O_3 , $\text{H}_2\text{O}/\text{Zn}$
- (4) O_3 , $\text{H}_2\text{O}/\text{Zn}$ and KMnO_4/H^+

COX046

16. The products formed in the following reaction, A and B are

[JEE (Main) 2022]



COX047

17. Hex-4-ene-2-ol on treatment with PCC gives 'A'. 'A' on reaction with sodium hypoiodite gives 'B', which on further heating with soda lime gives 'C'. The compound 'C' is

[JEE (Main) 2022]

- (1) 2-pentene (2) propanaldehyde
(3) 2-butene (4) 4-methylpent-2-ene

COX048

18. Which of the following conditions or reaction sequence will NOT give acetophenone as the major product?

[JEE (Main) 2022]

- (1) (a) (b) $\text{Na}_2\text{Cr}_2\text{O}_7, \text{H}^+$
(2) (a) (b) PCC, DCM
(3)
(4)

COX049

19. In the given reaction Major product 'X' is _____.

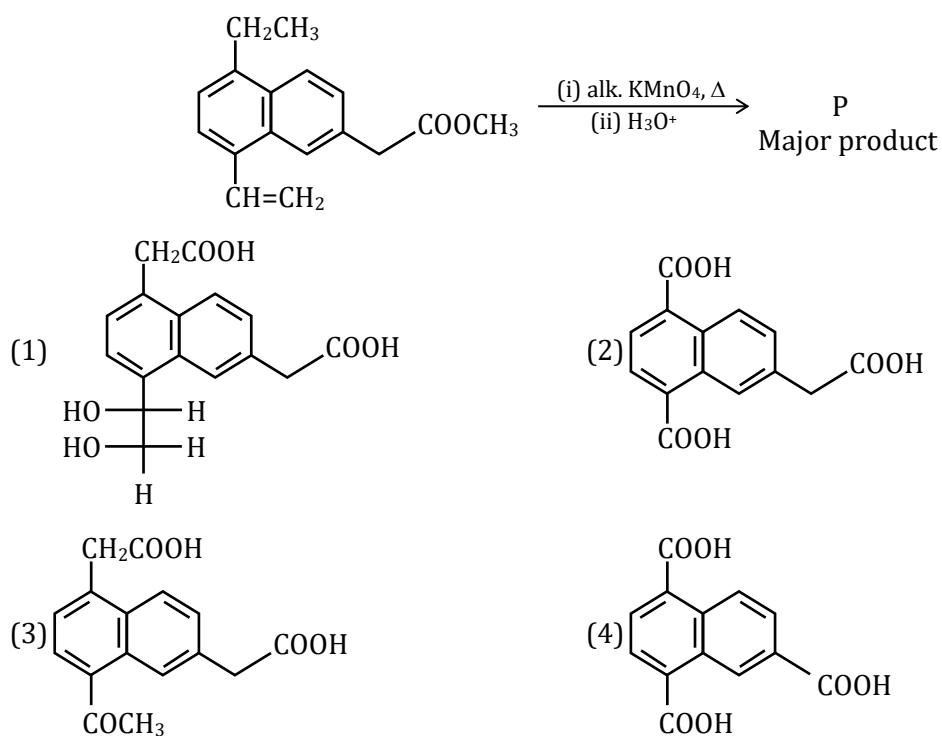
the number of sp^2 hybridised carbon (s) in compound 'X' is _____.

[JEE (Main) 2022]

COX050

20. The major product 'P' formed in the given reaction is

[JEE (Main) 2023]

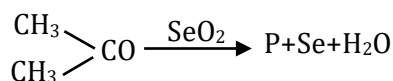


COX090

EXERCISE - JEE (Advanced) PYQ

1. In the reaction, P is

[IIT 1995]

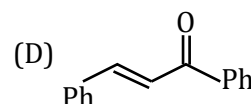
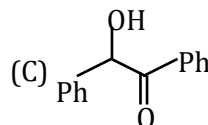
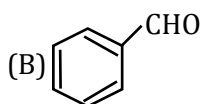
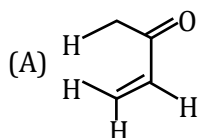


- (A)
- CH_3COCHO
- (B)
- $\text{CH}_3\text{COOCH}_3$
- (C)
- $\text{CH}_3\text{COCH}_2\text{OH}$
- (D) None

COX071

2. Positive Tollen's test is observed for

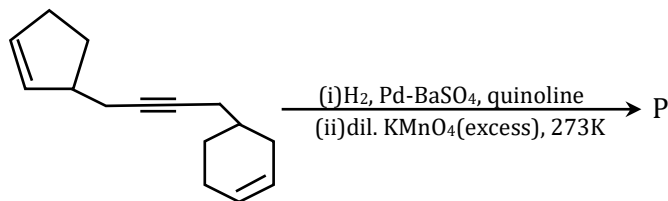
[JEE (Advanced) 2016]



COX072

3. Total number of hydroxyl groups present in a molecule of the major product P is

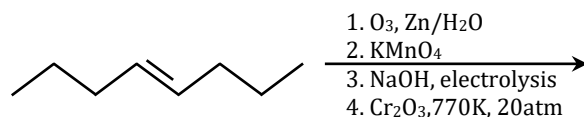
[JEE (Advanced) 2019]



COX073

4. The number of
- $-\text{CH}_2-$
- (methylene) groups in the product formed from the following reaction sequence is ____.

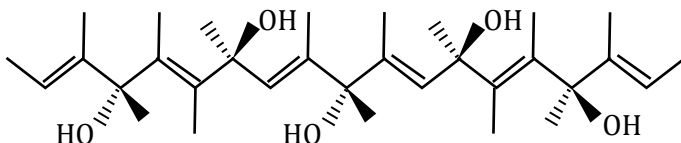
[JEE (Advanced) 2022]



COX074

5. The total number of chiral molecules formed from one molecule of P on complete ozonolysis (
- $\text{O}_3, \text{Zn}/\text{H}_2\text{O}$
-) is ____.

[JEE (Advanced) 2022]



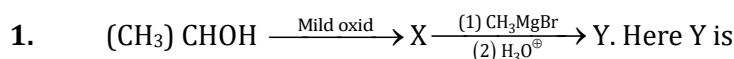
COX075

JEE (Main) Practice Paper

(This paper is for yourself practice and assessment the discussion of this paper is optional though you can see PDF solutions or video solutions or solutions in hardcopy whichever is provided.)

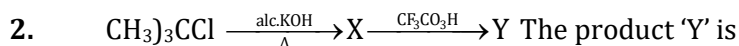
SECTION-A

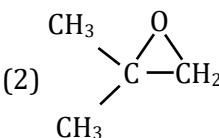
- This section contains **TWENTY** questions.
- Each question has **FOUR** options (1), (2), (3) and (4). **ONLY ONE** of these four options is correct.
- For each question, darken the bubble corresponding to the correct option in the ORS.
- For each question, marks will be awarded in one of the following categories
Full Marks : +4, if only the bubble corresponding to the correct option is darkened.
Zero Marks : 0, if none of the bubbles is darkened.
Negative Marks : -1 in all other cases



- (1) Isobutyl alcohol (2) tert-Butyl alcohol
(3) Isobutylene (4) sec-Butyl alcohol

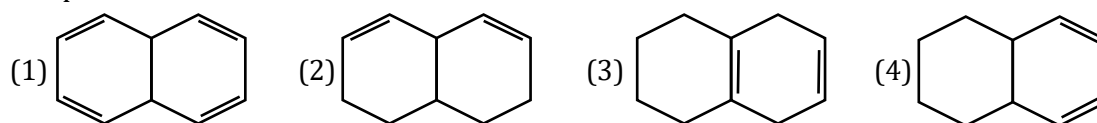
COX091



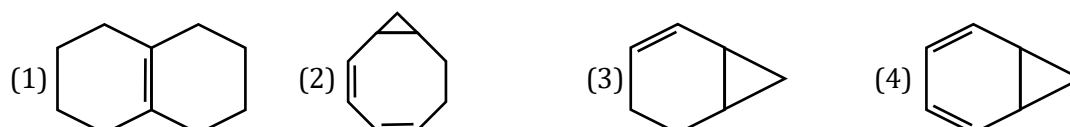
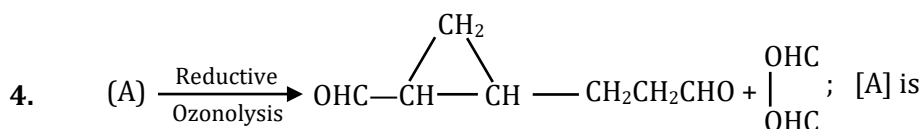
- (1) $\text{CH}_2=\text{CH}-\text{CH}_2\text{OH}$ (2) 
(3) $\text{CH}_3\text{COCH}_2\text{CH}_3$ (4) $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$

COX092

3. An unknown compound decolorizes bromine in carbon tetrachloride, and it undergoes catalytic reduction to give decalin. When treated with warm, conc. Potassium permanganate, this compound gives cis-cyclohexane-1, 2-dicarboxylic acid and oxalic acid. A possible structure for the unknown compound is

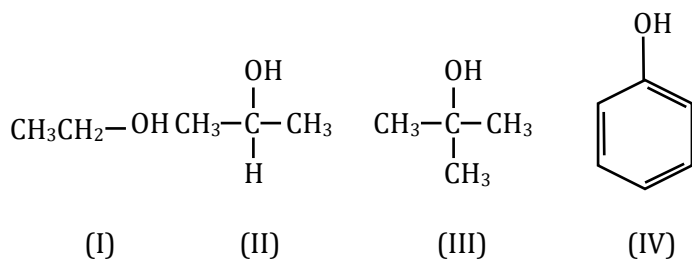


COX093



COX094

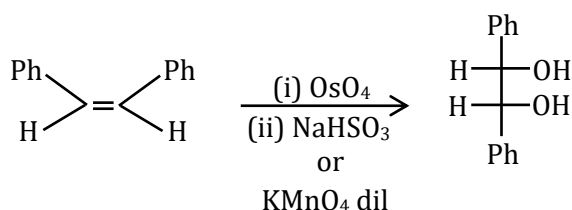
7. Which of the following sets of compounds cannot turn clear orange solution of $\text{CrO}_3/\text{aq. H}_2\text{SO}_4$ to greenish opaque solution?



- (1) I, IV
(2) II, III
(3) I, II
(4) III, IV

COX097

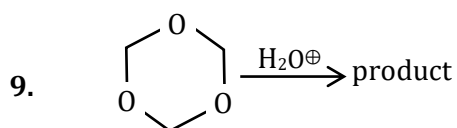
8. The given reaction,



is an example of

- (1) Stereospecific reaction
(2) Stereoselective reaction
(3) Both (1) and (2)
(4) Ordinary reaction

COX098

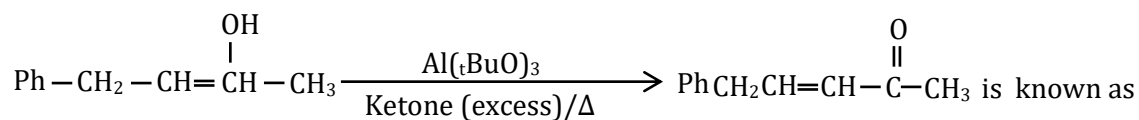


Product obtained in the above reaction is

- (1) $3\text{CH}_3\text{CHO}$
(2) 3HCHO
(3) 3HCOOH
(4) $3\text{CH}_3\text{OH}$

COX099

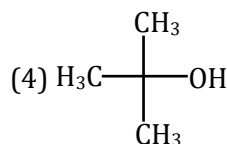
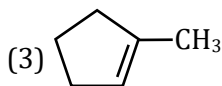
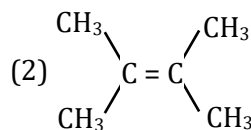
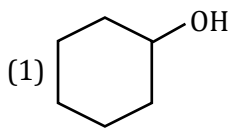
10. The reaction,



- (1) Wolff-Kishner reduction
(2) Oppenauer oxidation
(3) Meerwein-Ponndorf reaction
(4) Clemmensen reduction

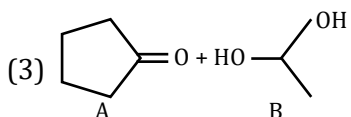
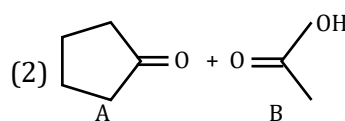
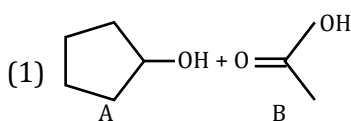
COX100

11. Which of the following can be oxidised to aldehyde or ketone by Jones reagent.



COX101

12. A + BA + B are



(4) None of these

COX012

13. Glucose as well as fructose are oxidized by periodic acid. The number of moles of HCOOH formed from each mole of glucose and fructose are

(1) 5 and 5

(2) 5 and 4

(3) 5 and 3

(4) 4 and 3

COX013

14. Secondary alcohols on heating with copper at 300°C give

(1) Alkenes

(2) Aldehydes

(3) Ketones

(4) tert-alcohols

COX014

15. The reagent, with which both acetaldehyde and acetone react easily is :

(1) Tollens reagent

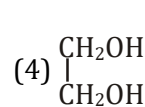
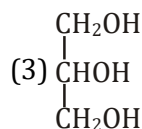
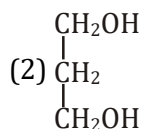
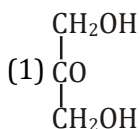
(2) Schiff's reagent

(3) H₂ / Ni

(4) Fehling's solution

COX015

16. Which of the following compounds is resistant to periodic acid oxidation ?



COX016

17. ; R₁ and R₂ are

(1) Cold alkaline KMnO₄, OsO₄/H₂O₂

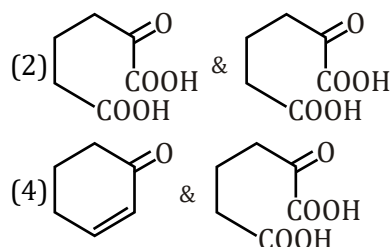
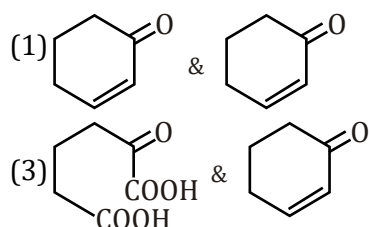
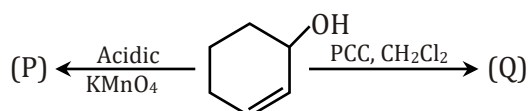
(2) Cold alkaline KMnO₄, HCO₃H & H₃O⁺

(3) Cold alkaline KMnO₄, C₆H₅CO₃H

(4) C₆H₅CO₃H, HCO₃H

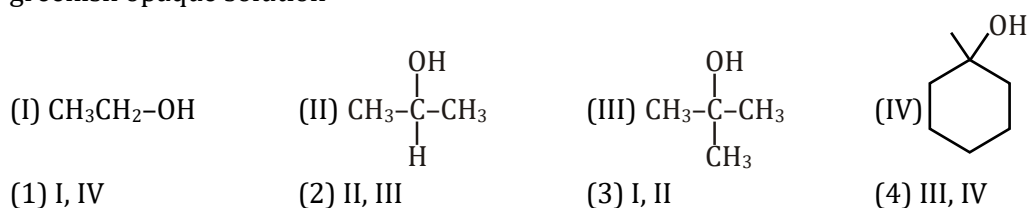
COX017

18. Identify (P) and (Q) respectively in the given reaction :

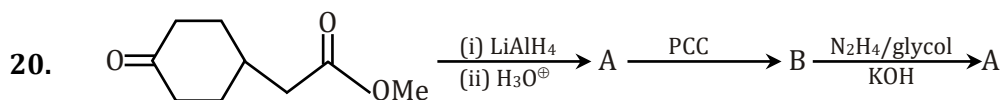


COX018

19. Which of the following sets of compounds cannot turn clear orange solution of CrO_3 / aq. H_2SO_4 to greenish opaque solution



COX019



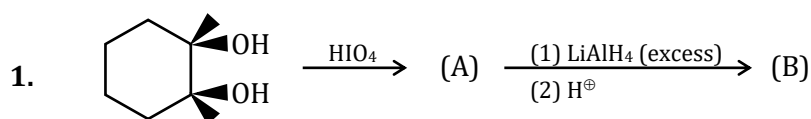
Product C is :



COX020

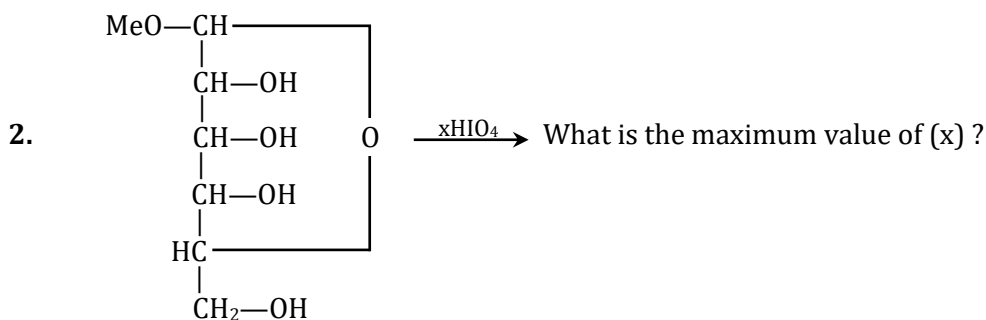
SECTION-B

- This section will have **SIX questions**. Candidate can choose to attempt any 5 questions out of these 10 questions. In case if candidate attempts more than 5 questions, first 5 attempted questions will be considered for marking.
- The answer to each question is a **NUMERICAL VALUE**.
- For each question, enter the correct numerical value (Answer should be rounded off to the nearest integer).
- Answer to each question will be evaluated according to the following marking scheme:
Full Marks : +4, if only correct answer is given.
Zero Marks : 0, if no answer is given.
Negative Marks : -1, for incorrect answer

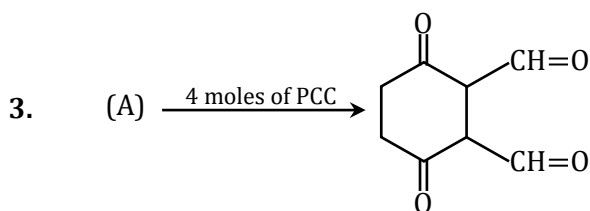


Total number of stereoisomers of product (B) will be :

COX021

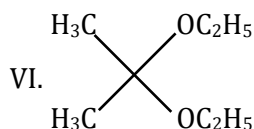
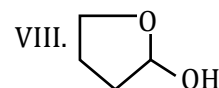


COX022

Maximum number of moles of Ac_2O consumed by reactant (A) is :

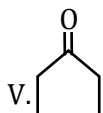
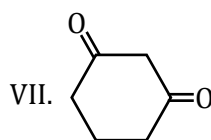
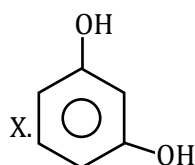
COX023

4. Out of the following compounds given below, the number of compounds which given positive test with Tollen's reagent are :

I. CH_3CHO II. PhCHO III. HCOOH IV. CH_3COOH V. $\text{CH}_3\text{CH}(\text{OH})\text{OC}_2\text{H}_5$ VII. $\text{CH}_3\text{C}\equiv\text{CH}$ IX. CH_3COCH_3

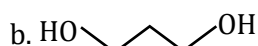
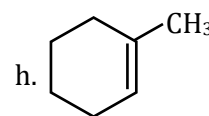
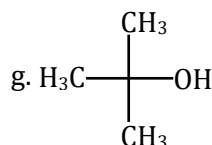
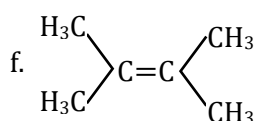
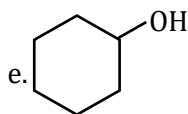
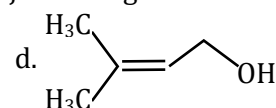
COX024

5. Out of the following compounds given below, the number of compounds which given positive iodoform test are :

I. CH_3CHO II. CH_3COCH_3 III. $\text{C}_2\text{H}_5\text{COC}_2\text{H}_5$ IV. PhCOC_2H_5 VI. $\text{PhCOCH}_2\text{COPh}$ VIII. PhCOCH_3 IX. $\text{CH}_3\text{COC}_2\text{H}_5$ 

COX025

6. How many of the following can be oxidised to aldehyde or ketone by Jones reagent or PCC.

a. $\text{H}_6\text{C}_6-\text{CH}_2\text{OH}$ c. C_6H_6 

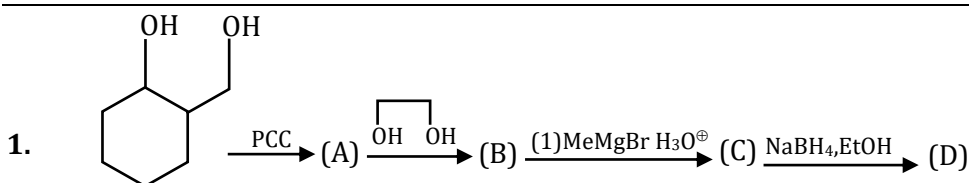
COX030

JEE (Advanced) Practice Paper

(This paper is for yourself practice and assessment the discussion of this paper is optional though you can see PDF solutions or video solutions or solutions in hardcopy whichever is provided.)

SECTION-I

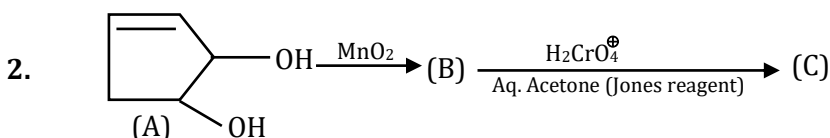
- This section contains **SEVEN** questions.
- Each question has FOUR options (A), (B), (C) and (D). ONLY ONE of these four options is correct.
- For each question, darken the bubble corresponding to the correct option in the ORS.
- For each question, marks will be awarded in one of the following categories:
 Full Marks : +3, if only the bubble corresponding to the correct option is darkened.
 Zero Marks : 0, if none of the bubbles is darkened.
 Negative Marks : -1, in all other cases



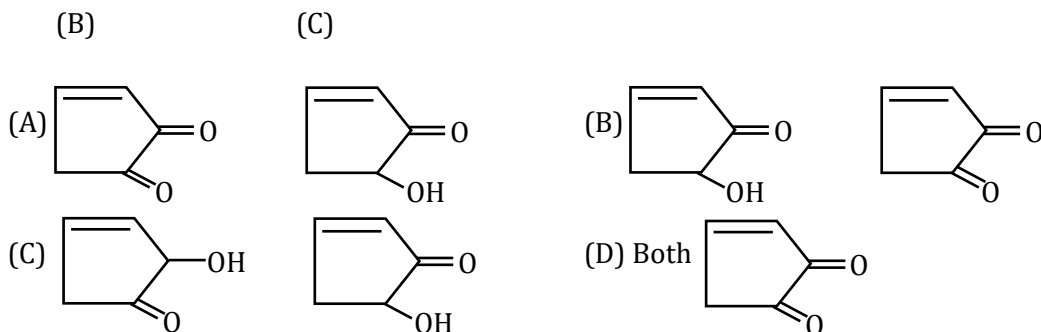
Product (D) in above reaction is :



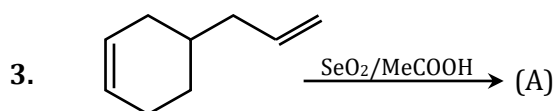
COX051



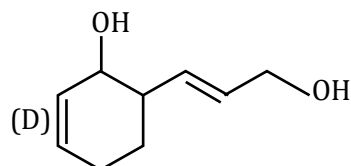
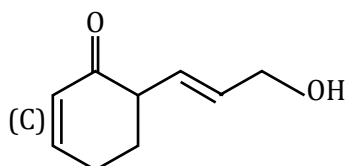
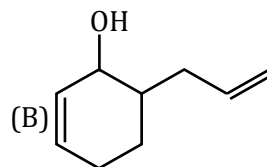
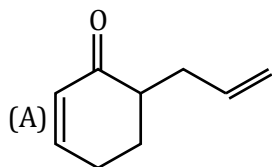
The compounds (B) and (C), respectively, are :



COX052



The compound (A) is

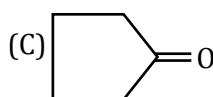


COX053

4. Acid-catalysed hydration, oxymercuration- demercuration, and hydroboration oxidation reaction will give the same product with

(A) But-2-ene

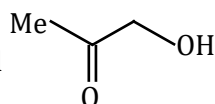
(B) But-1-ene

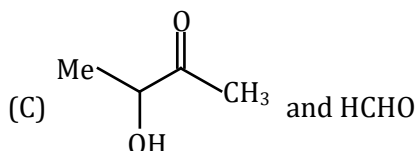


COX054

5. Fehling's solution can make distinction between:

(A) MeCHO and PhCHO

(B) MeCHO and 

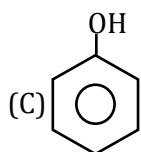
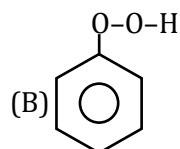


(D) MeCHO and HCHO

COX055

6. Fenton's reagent ($\text{Fe}^{2+} + \text{H}_2\text{O}_2$) with benzene gives

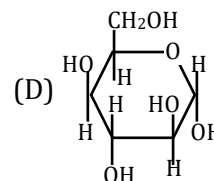
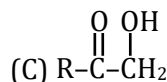
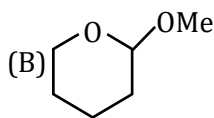
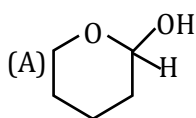
(A) No reaction



(D) 3($\text{HOOC} - \text{COOH}$)

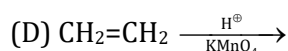
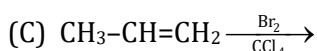
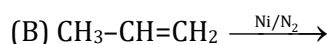
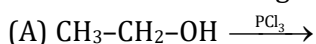
COX056

12. Which will give the Tollen test.



COX062

13. Which of the following is an example of oxidation reaction :



COX063

SECTION-III

- This section contains **TWO** question.
- Each question has matching lists.** The codes for the lists have choices (A), (B), (C) and (D) out of which **ONLY ONE is correct**
- For each question, marks will be awarded in one of the following categories :
Full Marks : +3, if only the bubble corresponding to the correct option is darkened.
Zero Marks : 0, if none of the bubbles is darkened.
Negative Marks : -1, in all other cases

14. Match the items given in column I with that in column II and III.

	Reactions		Reagents		Characteristics
a.		i	Birch reduction	p	Formed via brown complex
B		ii	Etard reaction	q	Formed via a diradical with subsequent intramolecular (C-C) bond formation
c.		iii	Fenton's reagent	r	Formed via a stable intermediate radical anion
d.		iv	Clemenson's reduction	s	Formed by radical formation

(A) (a → iv,q ; b → i,r ; c → ii, p ; d → iii,s)

(B) (a → ii,q ; b → i,r ; c → ii, p ; d → iii,s)

(C) (a → iv,q ; b → i,r ; c → i, p ; d → iii,s)

(D) (a → iii,q ; b → i,r ; c → ii, p ; d → iii,s)

COX064

15. Match the items given in column I with that in column II and III.

	Reactions		Reagents		Characteristics
a.		i	DIBAL-H	p	Silver mirror
b.		ii	Tollen's reagent	q	Involves an imine salt
c.		iii	MPV reduction	r	Forms solvent complex
d.		iv	Fehling's reagent	s	Involves a cyclic transition state with H ⁺ ion migration

(A) (a→iv, s ; b → I, q ; c →ii,p ; d → iv, r)

(B) (a→iii, s ; b → I, q ; c →ii,p ; d → iv, r)

(C) (a→ii, s ; b → I, q ; c →ii,p ; d → iv, r)

(D) (a→iii, s ; b → I, q ; c →ii,p ; d → iii, r)

COX065

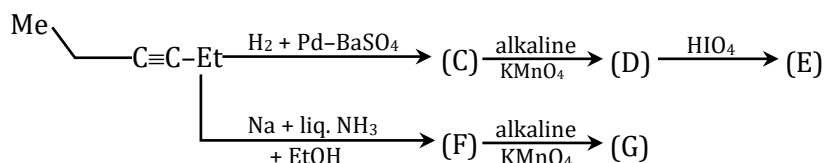
SECTION-IV

- This section contains **ONE** paragraph.
- Based on each paragraph, there are **THREE** questions.
- Each question has **FOUR** options (A), (B), (C) and (D) **ONLY ONE** of these four options is correct.
- For each question, darken the bubble corresponding to the correct option in the ORS.
- For each question, marks will be awarded in one of the following categories :

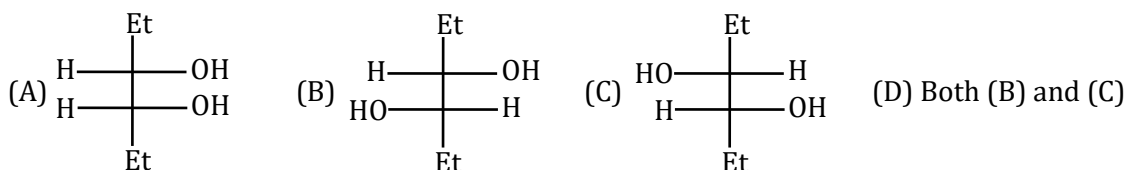
Full Marks : +3, if only the bubble corresponding to the correct answer is darkened.

Zero Marks : 0, in all other cases.

Paragraphs for Q.16 to 18

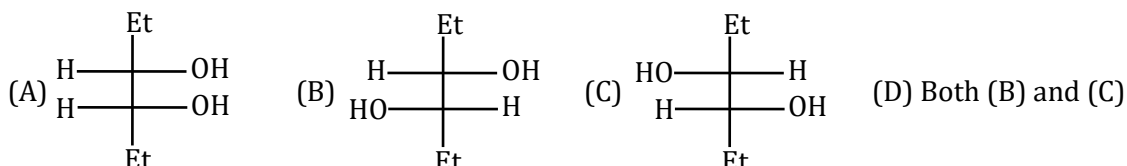


16. The compound (D) is :



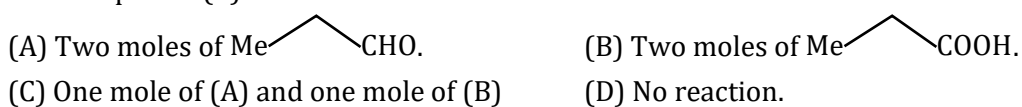
COX066

17. The compound (G) is :



COX067

18. The compound (E) is :

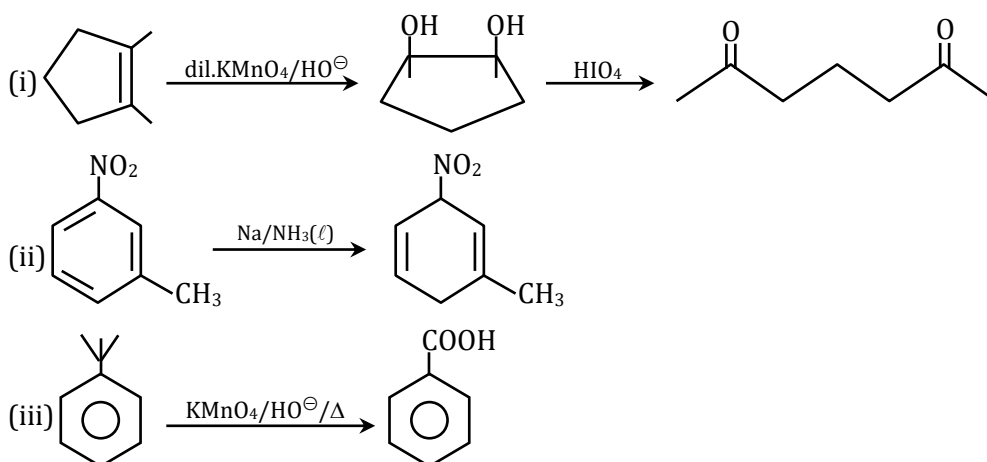


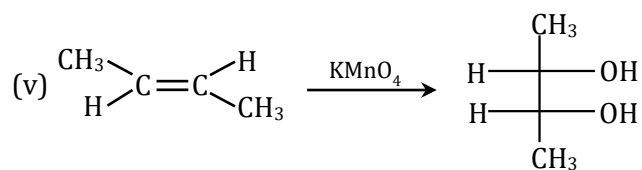
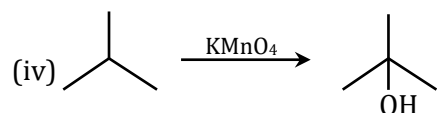
COX068

SECTION-V

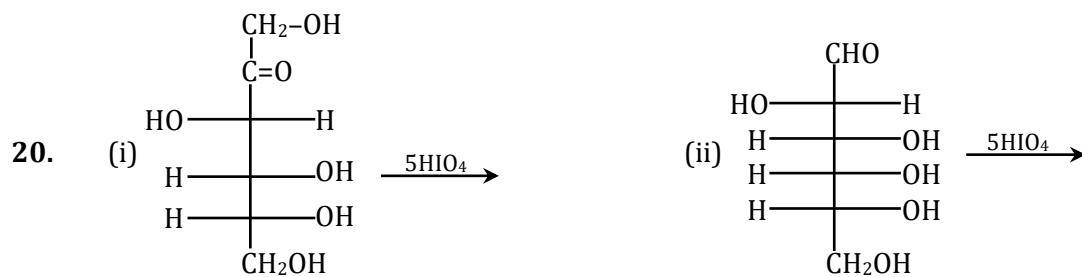
- This section contains **TWO** question.
 - The answer to each question is a **NUMERICAL VALUE**.
 - For each question, enter the correct numerical value (in decimal notation, truncated/rounded-off to the **second decimal place**; e.g. 6.25, 7.00, -0.33, -30, 30.27, -127.30, if answer is 11.36777..... then both 11.36 and 11.37 will be correct) by darkening the corresponding bubbles in the ORS.
- For Example :** If answer is -77.25, 5.2 then fill the bubbles as follows:
- Answer to each question will be evaluated according to the following marking scheme:
Full Marks : +3 if **ONLY** the correct numerical value is entered as answer.
Zero Marks : 0 in all other cases.

19. How many reactions are correct ?





COX069



Sum of moles of formaldehyde obtained in the reaction (i) and reaction (ii) ?

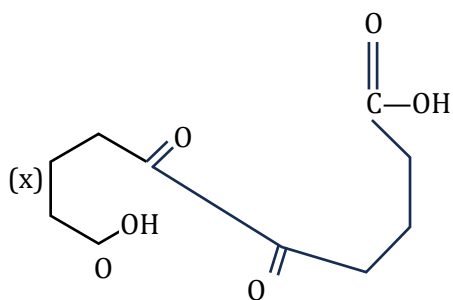
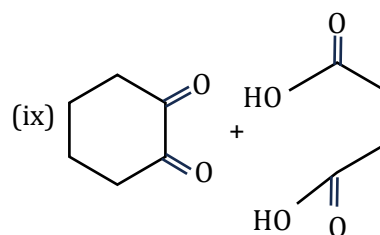
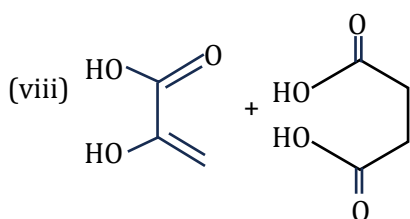
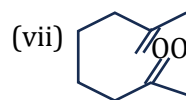
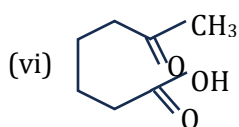
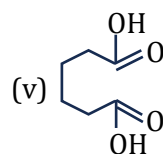
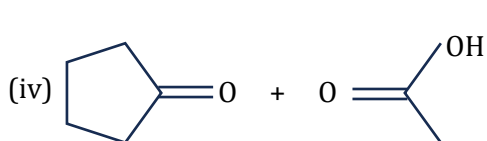
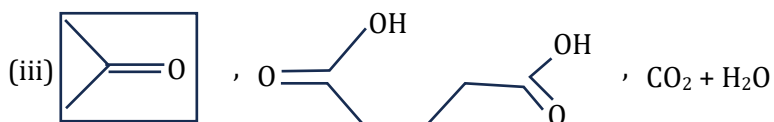
COX070

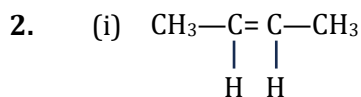
ANSWER KEY

EXERCISE - O

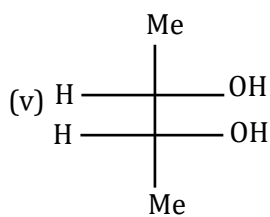
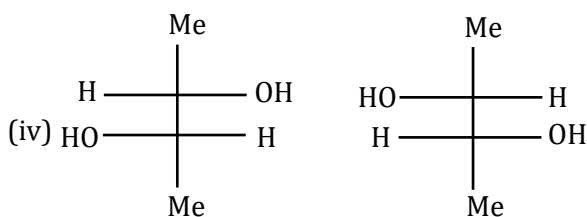
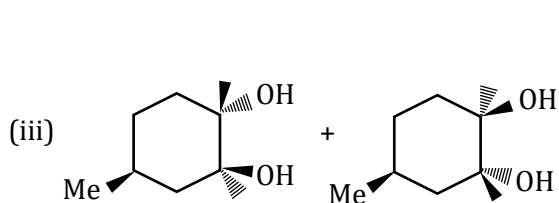
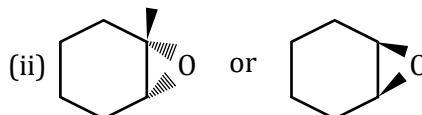
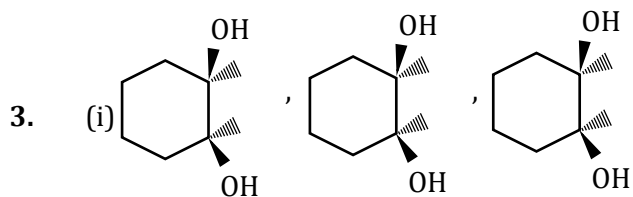
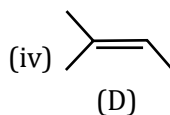
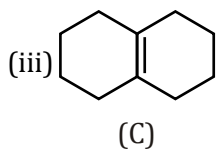
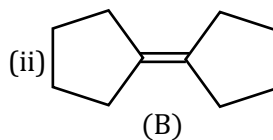
Que.	1	2	3	4	5	6	7	8	9	10
Ans.	D	B	C	C	A	B	D	C	B	D
Que.	11	12	13	14	15					
Ans.	C	ABC	ABC	AB	BC					
Que.	16					17				
Ans.	(A→ r,i), (B→ s,ii), (C→ q,iii), (D→ p,iv)					(A→ r), (B→ t), (C→ q), (d→ p) (E→S)				

EXERCISE - S

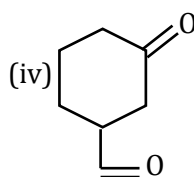
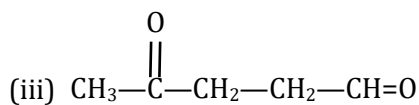
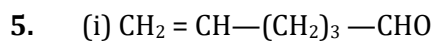
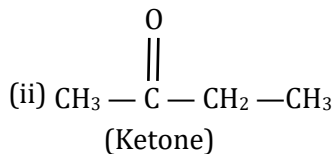
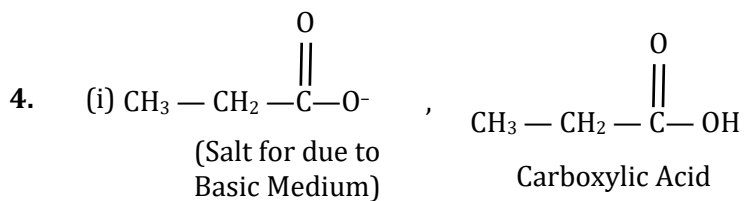
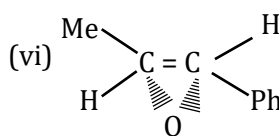
1. (i) $\text{CO}_2 + \text{H}_2\text{O}$ (ii) $\text{O} = \text{C} = \text{O} + \text{H}_2\text{O}$ 

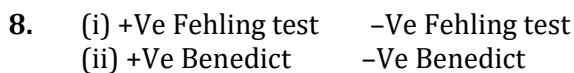
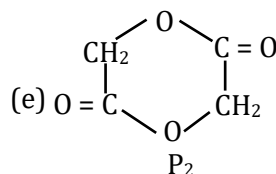
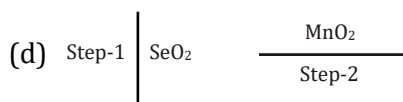
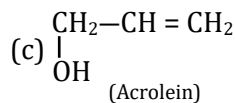
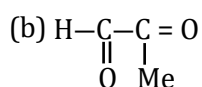
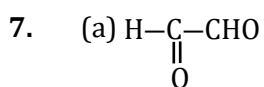
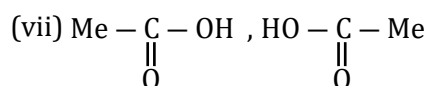
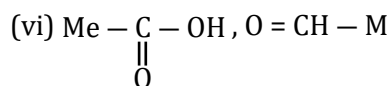
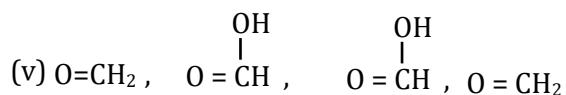
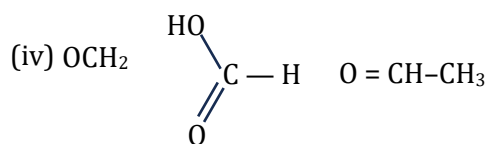
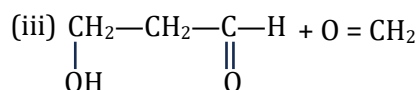
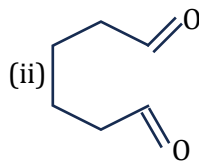
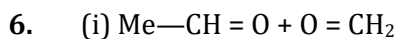
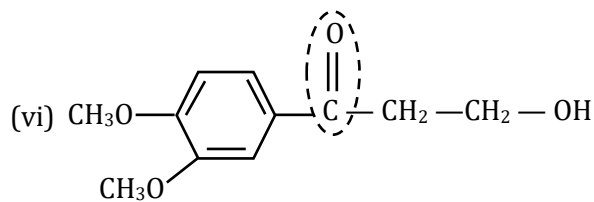
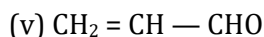


(A)



(Erythro)





EXERCISE - JEE (Main) PYQ

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	1	3	2	4	2	4	1	3	4	3
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	3	4	3	4	4	3	3	3	8	4

EXERCISE - JEE (Advanced) PYQ

Que.	1	2	3	4	5	
Ans.	A	ABC	6	0	2	

JEE (Main) Practice Paper

Section-A	Q.	1	2	3	4	5	6	7	8	9	10
	A.	2	2	4	2	1	2	4	1	2	2
	Q.	11	12	13	14	15	16	17	18	19	20
	A.	1	2	3	3	3	2	2	3	4	4
Section-B	Q.	1	2	3	4	5	6				
	A.	3	2	4	6	7	4				

JEE (Advanced) Practice Paper

Section-I	Q.	1	2	3	4	5	6	7	
	A.	B	B	C	A	A	C	B	
Section-II	Q.	8	9	10	11	12	13		
	A.	ACD	BD	ABC	AB	ACD	CD		
Section-III	Q.	14	15						
	A.	A	B						
Section-IV	Q.	16	17	18					
	A.	A	D	A					
Section-V	Q.	19	20						
	A.	3	3						