

April 2016

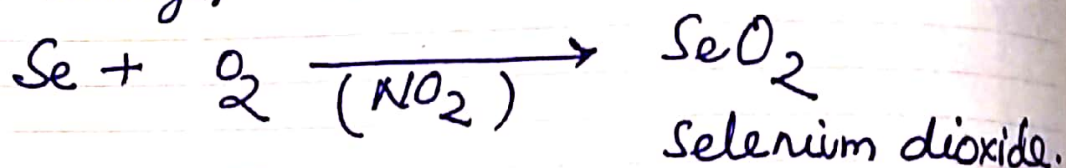
25 Monday

26 Tuesday

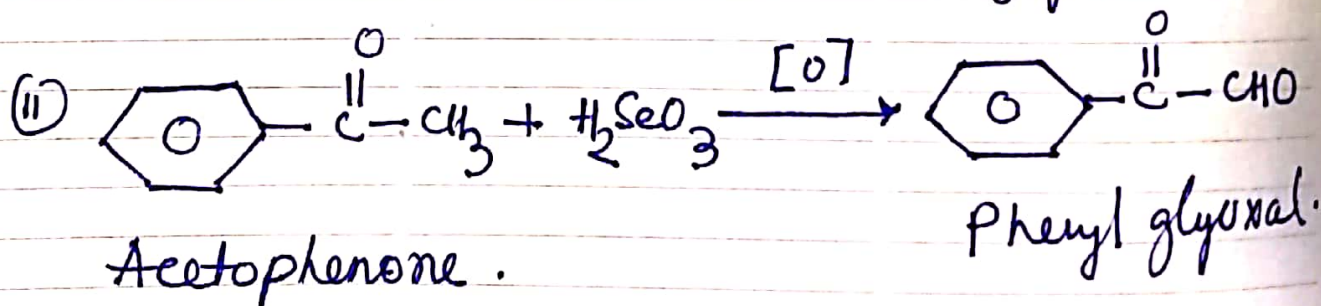
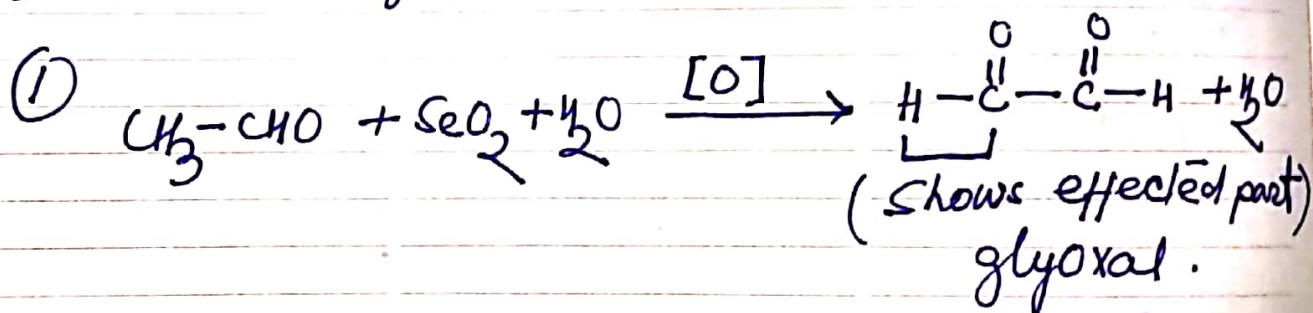
27 Wednesday

④ Selenium dioxide (SeO_2)

Preparation - It is prepared by heating selenium in air in presence of catalytic amount of nitrogen peroxide (NO_2), which act as catalyst.



Application (A) Selective Oxidation
 SeO_2 and water is called selenious acid (H_2SeO_3), which is a selective oxidiser, it oxidises reactive methylene group into carbonyl group without affecting the carbonyl group originally present in the molecule.



28 Thursday

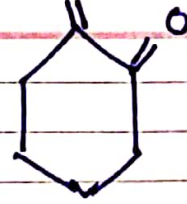
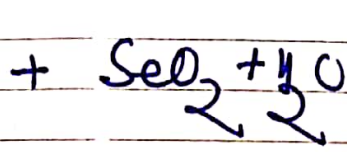
29 Friday

30 Saturday

(iii)

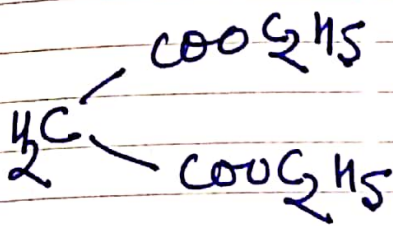


cyclohexanone

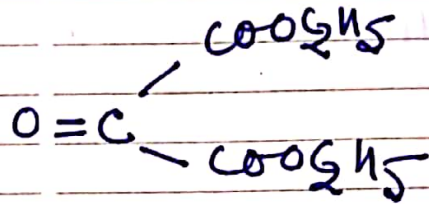
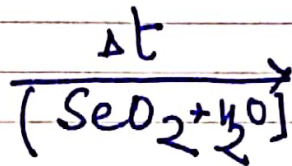


cyclohexane 1,2-dione

(iv)



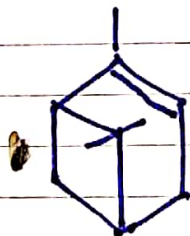
Malonic ester



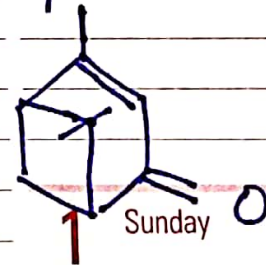
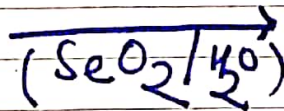
diethyl oxalate.

(B) A methylene group closer to C=C are oxidised to a ketonic group

(a)

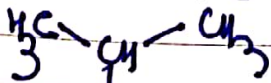


α -pinene

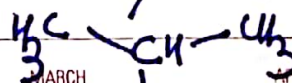
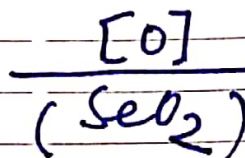


Verbinone.

(b) When a double bond present in the ring, oxidation occurs in the ring α -position to the more substituted end of the double bond.



isopropyl cyclohexene



2-isopropyl, 2-one - cyclohexanone.

MARCH							APRIL							MAY						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6		1	2	3	4	5	6	7	8	9	10	11	12	13	14
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
21	22	23	24	25	26	27	28	29	30	31										
28	29	30	31																	

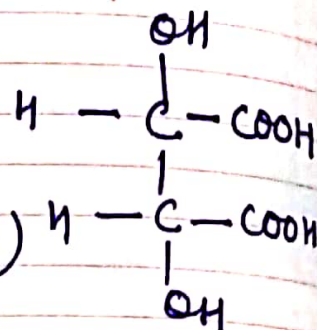
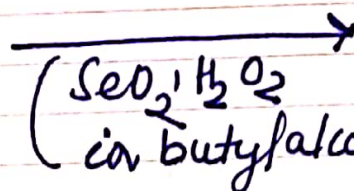
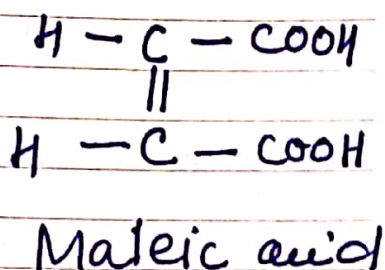
May 2016

2 Monday

3 Tuesday

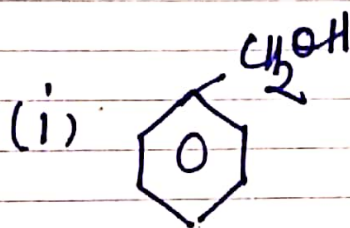
4 Wednesday

(C) As catalyst in trans-hydroxylation reaction of olefinic compound.

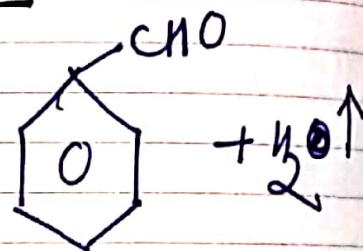
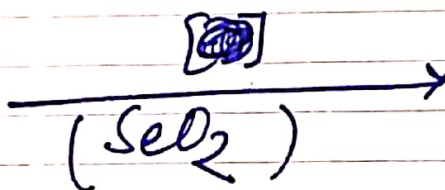


DL tartaric acid.

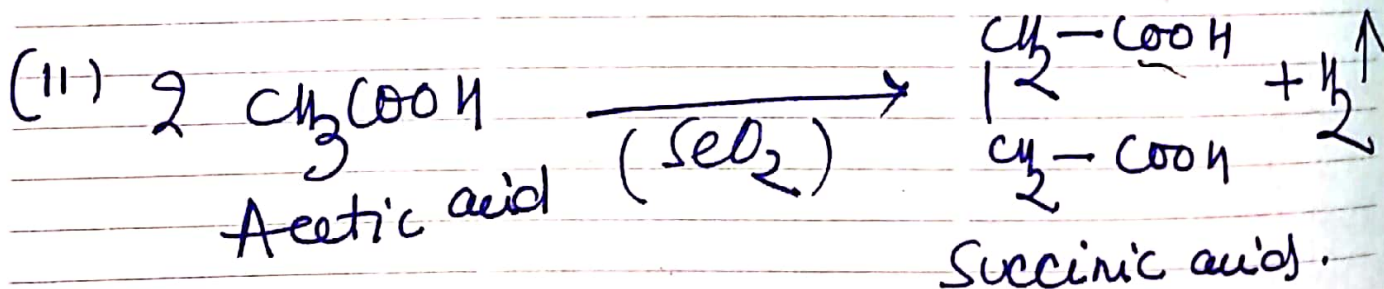
(D) In dehydrogenation reaction



Benzyl alcohol.



Benzaldehyde



Succinic acid.