Write note on : (i) DDQ	5264/M	5264/MC6/PCHE06 NOVEMBER 2018
		ORGANIC CHEMISTRY — II
Or.		
Explain the following:	Time : Three hours	e hours Maximum: 100 marks
		Answer ALL questions.
(iii) Selenium dioxide. (3+3+4)		UNITI
UNIT V	1. (a) I	Distinguish between the configuration and
State the isoprene rule. (2)		
Define carbohydrates. (2)	9	Give the favorskii rearrangement. (2)
Explain the general methods of structural determination of polysaccharides. (6)	2. (a) 1	Explain the mechanism of Claisen with example.
		Or
Or Write about the biosynthesis of terpenoids. (6)	9 (9)	Give a brief account of conformation of decalins.
Discuss the general methods of structural determination of terpenoids. (10)	3. (a) ]	Discuss the conformation and reactivity in cyclohexane derivatives with any two examples. (10)
$\mathbf{0r}$		$0^{r}$
the structure and synthesis	(6)	Describe the mechanism of the following:
camphor.		(i) Pinacol-pinacolone rearrangement
COUNTRY		(ii) Beckmann rearrangement. (5 + 5)
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(a)

15.

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(a)

14.

(a) 9

13.

Write note on: DDG LDA

(a)

12.

(a) What is quantum efficiency? (2)
 (b) Explain the paterno-Buchi reaction. (2)

(a) Distinguish between the thermal and photochemical reactions. (6)

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Or

(b) Write the mechanism of di-pi methane rearrangement. (6)

(a) Write note on:

6.

(i) Fluorescence

(ii) Phosphorescence.

(5 + 5)

Or

(b) Explain the following:

(i) Sigmatropic rearrangement with example

(ii) cycloaddition reactions with example.

(5 + 5)

## UNIT III

7. (a) What are functional group interconversions?

(b) Give the Umploung synthesis.

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8. (a) Write the retrosynthetic analysis of simple organic compounds with any two examples. (6)

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(b) Write the use of activating and blocking in synthesis.
(6)  (a) Discuss the schematic analysis of the total synthesis of 2, 4-dimethyl-2-hydroxypentanoic acid. (10)

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(b) Describe the linear, convergent and relay approaches to the total synthesis. (10)

VITINI

10. (a) Write the name and structure of DMSO. (2)

(b) Define phase transfer catalysts. (2)

 (a) Explain the preparation and properties of reactions of Wilkinson's catalyst. (6)

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(b) Write the DCC reagent used in organic synthesis with any three examples. (6)

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