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hmName :	Utech
Roll No. :	Conference of the South Conference

Invigilator's Signature :

CS/B.PHARM (OLD)/SEM-2/PT-204/2010 2010

PHARMACEUTICAL CHEMISTRY (ORGANIC CHEMISTRY)

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A (Multiple Choice Type Questions)

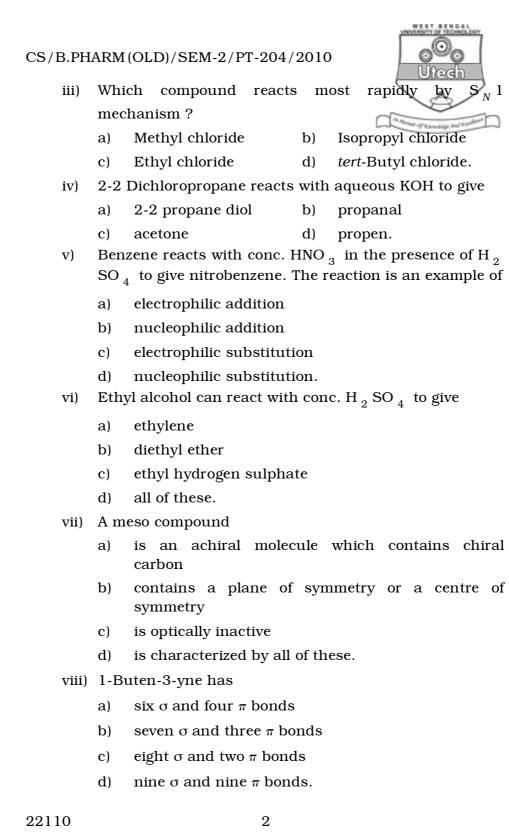
1. Choose the correct alternatives for any *ten* of the following :

 $10 \times 1 = 10$

- i) Lindlar's catalyst is
 - a) LiAIH 4
 - b) Pd/BaSO₄ in quinoline
 - c) NH ₂ NH ₂
 - d) $HCl/ZnCl_2$.
- ii) 1-butyne can be distinguished from 2-butyne by using
 - a) potassium permanganate
 - b) bromine in CCl $_4$
 - c) Tollen's reagent
 - d) chlorine in CCl $_4$.

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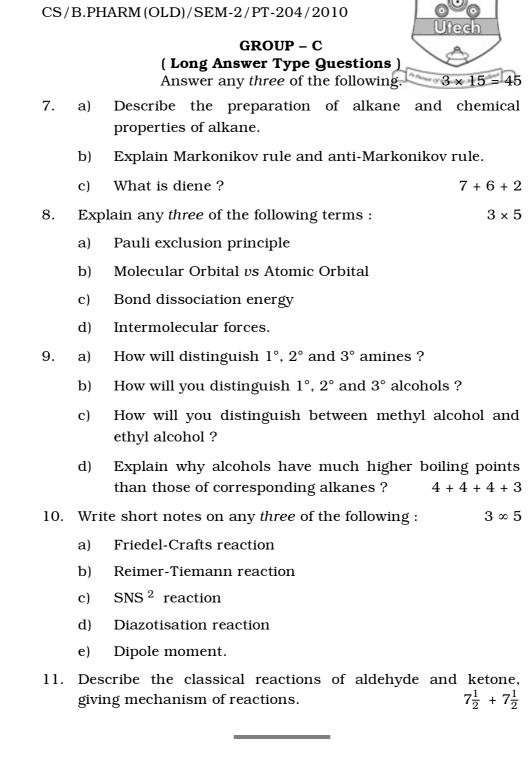
ix) Optically active compounds are the compounds that

- a) produce polarized light
- b) rotate polarized light
- c) rotate UV light
- d) rotate plane of polarized light.
- x) The chief constituent of vinegar is
 - a) ethyl alcohol b) grape juice
 - c) acetic acid d) none of these.
- xi) In *C*-*C*, there is
 - a) SP³ hybridization b) SP hybridization
 - c) SP² hybridization d) no-hybridization.
- xii) Conformational isomers represented by
 - a) Fischer projection b) Newman projection
 - c) Howarth projection d) none of these.

GROUP – B (Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

- 2. Cyclopropane is more reactive than cyclopentane. Explain.
- 3. Why is phenol more acidic than alcohol ?
- 4. What do you mean by cis-trans geometrical isomerism ?
- 5. Discuss SP2 and SP3 hybridization of nitrogen with example.
- 6. Differentiate between bonding and anti-bonding.
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