

NEET ISOMERISM — RETENTION, INVERSION AND RACEMISATION IN REACTIONS — PYQS

Max. Marks: 20
Questions: 5

Section A (MCQ) — 5 questions

Q.1 The incorrect statement regarding chirality is

[NEET (UG) 2022]

- (1) S_N1 reaction yields 1 : 1 mixture of both enantiomers
- (2) The product obtained by S_N2 reaction of haloalkane having chirality at the reactive site shows inversion of configuration
- (3) Enantiomers are superimposable mirror images on each other
- (4) A racemic mixture shows zero optical rotation

Scan or tap for the full solution


Q.2 In an S_N1 reaction on chiral centers, there is

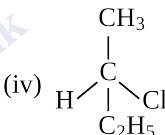
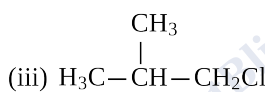
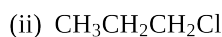
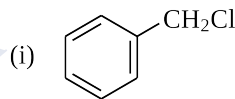
[AIPMT 2015]

- (1) inversion more than retention leading to partial racemisation
- (2) 100% retention
- (3) 100% inversion
- (4) 100% racemisation

Scan or tap for the full solution

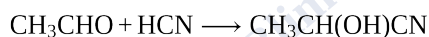

Q.3 Which of the following compounds will undergo racemisation when solution of KOH hydrolyses?

[AIPMT 2014]



- (1) (i) and (ii)
- (2) (ii) and (iv)
- (3) (iv)
- (4) (i) and (iv)

Scan or tap for the full solution


Q.4 In this reaction :


an asymmetric centre is generated. The acid obtained would be

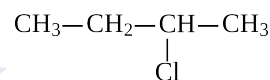
[AIPMT 2003]

- (1) D-isomer
- (2) L-isomer
- (3) 50% D + 50% L-isomer
- (4) 20% D + 80% L-isomer

Scan or tap for the full solution


Q.5 obtained by chlorination of n-butane will be

[AIPMT 2001]



- (1) meso form
- (2) racemic mixture
- (3) d-form
- (4) l-form

Scan or tap for the full solution



ANSWER KEY

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