

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation

Pharmaceutical Chemistry Semester II

End Term Examination, May 2017

Subject: PC- 211 Fundamentals of Organic Chemistry

Time: 2 hrs

Date: 01 /5/2017

Marks: 60

Q.1 Answer any 09 questions. Each question carries 1 mark

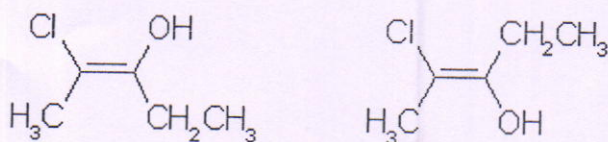
[9*1=09]

1. Define Stereo-chemistry?
2. How many chiral carbons present in tartaric acid?
(i) 1 (ii) 2 (iii) 3 (iv) None
3. Staggered conformer is most stable than eclipsed. (True/False)
4. Draw the structure of iso-butane.
5. Triplet carbene is more stable than singlet carbene. (True/False)
6. What is Carbanion?
7. Hydrogen bond is stronger bond than vander-waals force. (True/False)
8. Define ABMO.
9. The % s orbital character in ethylene is -----
10. How many sigma and pie bond present in benzene ring.

Q.2 Answer any 5 questions. Each question carries 04 marks

[5*4=20]

1. What is isomer? Explained structural isomer with example.
2. Identify the E and Z configuration of following compounds.



3. Write the difference between σ (Sigma) and π (Pi) bond.
4. Write a note on hydrogen bond.
5. Write two preparations of aldehyde and ketone.
6. Discuss the stability of nitrene.

Q.3 Answer any 3 questions. Each question carries 07 marks

[3*7=21]

1. Briefly describe the optical isomer.
2. Draw the conformer of cyclohexane with its energy graph.
3. What is intermolecular force? Explained its types with example.
4. What is carbocation? Discuss structure and stability of it.

*******BEST OF LUCK*******