

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester II
End Term Examination, April 2018
Subject: PC- 211 Fundamentals of Organic Chemistry

Time: 2 hrs

Date: 24/4/2018

Marks: 50

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

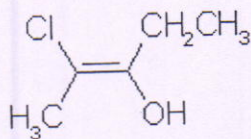
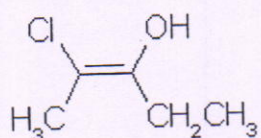
[9*1=09]

1. Define Stereo-chemistry?
2. How many chiral carbons present in tartaric acid?
(i) 1 (ii) 2 (iii) 3 (iv) None
3. Chair conformer is most stable than Boat conformer. (True/False)
4. Draw the structure of Trans 2-butene.
5. What is Carbanion?
6. Hydrogen bond is stronger bond than vander-waals force. (True/False)
7. Write a full name of ABMO.
8. Which type of hybridization present in ethylene -----
9. How many sigma and pie bond present in acetylene.
10. Which type of bond is present in NaCl?

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 a note on overlapping of orbitals
4. Write a note on hydrogen bond.
5. Write two preparations of alkane and cycloalkane.
6. Explain VB Theory.

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 carbocation? Discuss structure and stability of it.
4. What is intermolecular force? Explained its types with example.
5. Explain geometric isomer with example.