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University under section 2(f) of UGC Act, 1956

Sessional I (Even) Semester Examination, March 2025

Roll no.....

Name of the Course and semester: B.Pharm IInd Semester
Name of the Paper: Pharmaceutical Organic Chemistry I
Paper Code: BP202T
Time: 1.5-hour

Maximum Marks: 30

Note:
(i) This question paper contains three sections.
(ii) All the questions are compulsory.

Section-A

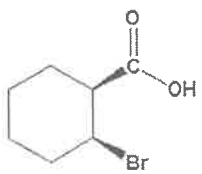
Q1. Multiple Choice Questions – Attempt all questions **(10 X 1 = 10 Marks)**

a. Pyridine is an example of CO1
A. Acyclic compound
B. Cyclic Compound
C. Heterocyclic Compound
D. Alicyclic Compound

b. Which is correct for Alicyclic CO1
A. It has No Cyclic Ring
B. It has No Aromatic Character
C. It has No Hetero Atom in Ring
D. It has only Carbon Atom in Ring

c. Priority of functional group during IUPAC nomenclature CO1
A. COOH > HC=O > -CO > -OH > $-NH_2$ > C=C > C-C
B. COOH > -OH > $-NH_2$ >HC=O > -CO > C=C > C-C
C. COOH > -CO > HC=O > $-NH_2$ > -OH >C=C > C-C
D. COOH > HC=O > -CO> C=C > C-C > -OH > $-NH_2$

d. IUPAC name of CO1
A. 2-Bromocyclohexanecarboxilic acid
B. 1-Bromocyclohexane,2-carboxylic acid
C. 3-Bromocyloheptanoic acid
D. 1-Bromo, 2-oxo, Cyclohexane



e. Ethanol and Dimethyl ether is an example of CO1
A. positional isomers
B. chain isomers
C. functional group isomers
D. Metamerism

f. Ideal Bond angle in sp3 hybridised alkane CO2

A. 104°C
B. 120°C
C. 110 °C
D. 109.5 °C

g. Solvent used in unimolecular elimination reaction CO2

A. Non polar
B. Polar Protic
C. Polar Aprotic
D. Buffers

h. When Alkene + O_3 → Carboxylic Acids, it is known as CO2

A. Reductive Ozonolysis
B. Oxidative Ozonolysis
C. Alkyne Ozonolysis
D. All of the above

i. Which paraffins are used as laxative ? CO2

A. n-paraffins
B. Iso-paraffins
C. Cycloparaffins
D. Liquid Paraffins

j. Example of Conjugated diene CO2

A. Vitamin A
B. Vitamin B
C. Vitamin C
D. Vitamin E

Section B

Q. 2 Short Questions: Attempt any two questions **(2X 5 = 10 Marks)**

a. What are IUPAC nomenclature rules for organic compounds? Give five examples with different functional groups. CO1

b. What are the differences between Elimination Reaction 1 and Elimination Reaction 2?CO2

c. What are Conjugated Dienes? How electrophilic addition and free radical addition reaction takes place in conjugated dienes? CO2

Section C

Q. 3 Long questions: Attempt any one question **(1X10 = 10 Marks)**

a.How Organic Compounds are classified? What are Isomers and their types? CO1

b. What role is played by Saytzeff's Orientation, Markownikoff's Orientation and Anti-Markownikoff's Orientation in the chemistry of Alkene? Explain with examples. CO2