

Msc Sem -4 paper -3(mock test)

Natural products & Heterocyclic chemistry

Q.1. Which statement is true for 3-membered ring?

- a) **Highly strained 3 membered ring compounds makes it very reactive.**
- b) These compounds contains N, P O in the ring.
- c) They contains imidazole ring in the structure.
- d) They have least dipole moment value.

Q.2. In nature Oxiranes present in the form of

- a) **Leukotrine**
- b) Chlorophyll
- c) plastocyanin
- d) Azurin

Q.3.....biologically active compound shows Anticancer activity.

- a) Oxetane
- b) **Aziridines**
- c) Oxiranes
- d) Azetidines

Q.4..... is a weak base.

- a) Oxetane
- b) Oxiranes
- c) Azetidines
- d) **Aziridines**

Q.5is a strong base

- a) Aziridines
- b) **azetidines**
- c) Oxiranes
- d) oxetane

Q6 .IUPAC name of indole is

- a) **1H-BENZO PYRROLE**
- b) 2H-BENZO PYRIDINE
- c) 3H-INDO PYRROLE

d) 4H-BENZO PYRROLE

Q.7.I.R. frequency of Oxetane ...cm⁻¹.

a)3052

b)2500

c)2000

d)1500

Q.8.I.R. frequency of Oxirane ...cm⁻¹.

a)3500

b)2928

c)2200

d)1800

Q.9. Acridine shows nucleophilic reaction at ...position

a) 9

b)10

c)5

d)2

Q.10.Indole occurs naturally in

a)Serotonine

b)leutotetraene

c)Penicillin

d)Steroid

Answer key -MSC SEM-4 PAPER-3 MOCK TEST

Q.1	A
Q.2	A
Q.3	B
Q.4	D
Q.5	B
Q.6	A
Q.7	A
Q.8	B
Q.9	A
Q.10	A