

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
B.Sc. -III Paper No. XI, Sem-V,
Unit Test Exam Oct-2017

Date- 10/10/2017

Time- 12.30-01.30

Mark-10

Q. 1. Choose the most correct alternative for each of the following and rewrite the answer

1. The typical example of Auxochrome is

- a) C=O b) NO₂ c) NH₂ d) COOH

2. The Fingerprint region lies in the range ofcm⁻¹

- a) 4000-650 b) 4000-1300 c) 500-1500 d) 1300-909

3. Which proton is removed/abstract in Mc-Lafferty rearrangement

- a) Alpha b) Beta c) Gamma d) Delta

4. Coupling Constant value (J) depends on...

- a) External magnetic field b) Instrument frequency c) Chemical environment d) all of the above

5. Which nuclei shows magnetic momentum in NMR spectroscopy

- a) I = 0 b) I > 0 c) I < 0 d) None of the above

6. Acetone gives in NMR Spectra

- a) doublet b) triplet c) singlet d) quartet

7. The number of fundamental vibrations for Linear molecules are

- a) 3n-6 b) 3-6n c) 3n-5 d) None of the above

8. The fragment ion of Methane is.....

- a) CH₄⁺ b) C⁺ c) H⁺ d) All of these.

9. The Pentacyclic ring containing Nitrogen hetero atom is.....

- a) Indole b) Pyrrole c) Furan d) Pyridine

10. The emerging green technologies are.....

- a) Microwave and Photochemistry b) Sonochemistry and Electrochemistry
c) both a and b d) Nuclear chemistry