

of the Muslims of India'.

CONCLUSION:

But here at the end, I just want to say that Maulana's way of leading is rooted in the Quranic principle which says clearly that Allah is the Ultimate Decision-Maker. What I find is that Maulana remains ever with the ultimate realization that he is still no more than a poor servant or Bandah in the language of Islam. He remains ever-committed to the Quranic thought that the ultimate result is in the hands of the Creator denoted by the name Allah, Who is the Ultimate Decider. This thought makes him least bother about whether people follow him or not. His tendency is in accordance with the Quranic instruction that his duty is to convey the points of view that he has attained through his insight and acumen.

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07

The Visionary framework of Spectroscopy

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Abstract:

In the discovery and development of understanding the nature of atom, ions and molecule there are many techniques are involved. In that all techniques the spectroscopy techniques gave interesting, basic and detail information about the structures and properties of atom and molecules. In this article focused on the concept, types and applications of Spectroscopy.

Key Words: Spectroscopy, Spectroscopic techniques, Electromagnetic spectrum.

Introduction:

Spectroscopy is the examination of interaction of electromagnetic radiation with matter (atoms and molecules), it also express as spectroscopy is the study of interaction of electromagnetic radiation with matter as an operator of frequency.

The term spectroscope obtain from two root words i.e. Latin word spectrum, meaning image and the Greek word skopein i.e. to view. The meaning of spectroscope is an instrument that permits visual observation of spectra. The important role of spectroscopy in science field is to work in physical and analytical chemistry to identify, determine, or quantify the molecular composition of a sample. Depends upon the type of molecule or atom will absorb, emit the electromagnetic radiation and explore the own constitutional properties. Before the discovery

and development of spectroscopic technique in science field it was impossible to understand the various independent characteristics of atoms like their atomic spectra, chemical properties and weight. The usefulness of the technique was well stated by Professor of Physics

Sir Robert B. Leighton, In all the tools that have been applied to the study of the detailed structure of matter, it can fairly be said that spectroscopy has been applied in more ways to more problems, and has produced more fundamental information, than any other.

Spectroscopic techniques:

Basic mechanism of spectroscopy is the matter (atom or molecule) absorbed or emitted the electromagnetic radiation with respect to frequency or wavelength, due to this phenomenon molecule undergo number of processes like rotation, vibration, electronic transitions, and nuclear transitions. The energies require for each processes corresponds to different regions in the electromagnetic spectrum. A sun light is the source of electromagnetic spectrum, it contain the number of regions such as x-ray, gamma ray, microwave, ultra-violet, visible, infrared & radio waves. Each having specific energy and produces different processes in the molecule. Depending on the region of the electromagnetic spectrum used for the excitation, different processes occur in atoms and molecules leading to different spectroscopic techniques.

1. NMR/ ESR Spectroscopy: This technique observe in molecule when the transition of nuclear spin energy level takes place in presence of applied magnetic field, for this transition a very low energy required which match to the radiofrequency region of electromagnetic spectrum.

2. Microwaves Spectroscopy: This technique observe in molecule having permanent dipole moment, when the transition of rotational energy level takes place. For this transition an energy required which match in between

radiofrequency region and infrared region of electromagnetic spectrum.

3. Vibrational spectroscopy: This technique observe in molecule whose dipole moment changes during vibration of molecule. The energies associated with molecular vibrations fall in the infrared region of electromagnetic spectrum. This technique is very helpful for identification of functional group in an organic compounds.

4. Electronic Spectroscopy: UV/Visible region: This technique observe in molecule when the electronic transition of takes place in the molecule, for this transition high energy required which match to the UV and visible regions of electromagnetic spectrum.

5. X-ray Spectroscopy: X-rays are high energy electromagnetic region and causes transitions in the internal electrons of the molecules.

Spectroscopic Applications:

This spectroscopic technique have broad spectrum of application in various fields not only concern for science subjects like Chemistry, Physics & Astronomy but also useful in Food processes, oil companies, medical science, colour industries etc. Some of them are as follows:

1. Purity control: In medicinal chemistry for understanding the purity of a given organic compound such as a drug can be studied by UV/Visible spectroscopy. In this method there is comparison between the spectrums of standard drug with new drug molecule.

2. Identification of functional groups: An infra-red spectroscopy mainly useful in organic chemistry for identification of various functional groups. There is change is observe in the rotational energies of different functional groups which having characteristics energies to distinguish between them.

3. Magnetic resonance image (MRI): The MRI technique as an important application of NMR spectroscopy in medicinal field. As NMR useful for understanding the structure of molecule, MRI

is the image of section of human body. By examining the MRI, medicinal scholars easily differentiate between the normal cell and diseased cells.

4. Identification of unknown materials: In space the unknown materials are present and the stable atoms can be detected by using microwave spectroscopy.

Conclusion:

In this article gave enlighten on the concept and importance of Spectroscopy technique, It was observe that Spectroscopy technique is the milestone technique in the development of understanding of structure, properties of molecules and ions.

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A Comparative Sociological analysis: A case Study of Korku and Kolam

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Introduction:-

Human activities have had a shattering consequence on species ecological diversity, and the rate of human-induced survivals is accelerating the Acculturations at the in and out of the Chikaldhara-Melghat indigenous community life. The life of Korku and Kolam community has pinned its cultural significance and its landscape is sustainable fabrication of wild resources in adapted ecosystem.

Traditionally, it is observed that natural and adapted ecosystem which leads all tribal settlements to have acquired a sustainable uses of their reliant on sources from nature for living. Further the present paper has discusses the preservation of interdependence and development of Korku and Kolam Community's Man-Animal coexistence in the vicinity. The paper will illustrate the Socio-cultural aspects of Korku and Kolam Community taking into account of Socio-economic and Political as well as ecological requirements of sustainability. Kolami (spoken by the Kolams- a scheduled tribe) is spoken in Maharashtra (Yavatmal, Wardha, Amravati,